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STATEMENT OF EXPENDITURES OF THE DEPARTMENT OF AGRICULTURE

FOR THE FISCAL YEAR ENDED JUNE 30

1915

DECEMBER 7, 1915.—Referred to the Committee on Expenditures in the Department of Agriculture and ordered to be printed

WASHINGTON
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LETTER OF TRANSMITTAL.

DEPARTMENT OF AGRICULTURE,
Washington, December 6, 1915.

SIR: As required by section 529, Revised Statutes, and the act of March 3, 1885 (23 Stat. L., 356), I have the honor to transmit herewith a detailed statement of expenditures of the Department of Agriculture for the fiscal year ended June 30, 1915.

A copy of this report has also been transmitted to the President of the Senate.

Very respectfully,

D. F. HOUSTON, *Secretary.*

The SPEAKER OF THE HOUSE OF REPRESENTATIVES.

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EXPENDITURES OF THE DEPARTMENT OF AGRICULTURE.

OFFICE OF THE SECRETARY.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Secretary's office	$46,238.77	$4,012.17		$50,250.94	$3,800.91	$1,586.81	$2,922.91	$6,074.02
2	Assistant Secretary's office	5,944.43	1,218.75		7,163.18	480.84		558.57	164.94
3	Solicitor's office	89,427.50			89,427.50	44.37		800.14	398.15
4	Disbursing office	45,565.55			45,565.55			206.03	430.70
5	Library	27,798.00	1,787.50		29,585.50			2,566.88	10,169.44
6	Chief clerk's office	182,196.54	12,468.01	$600.00	195,264.55	32.35		553.96	10,816.69
	Total	397,170.79	19,486.43	600.00	417,257.22	4,358.47	1,586.81	7,608.49	28,053.94

PROJECT STATEMENTS.

Secretary's Office.

Total expenditures as above	$69,353.44
Outstanding liabilities, Aug. 31 (estimated)	1,279.38
Unexpended balance (estimated)	3,873.83
Total allotment	74,506.65

The Secretary of Agriculture administers the work of promoting agriculture in its broadest sense. He exercises general supervision and control over the affairs of the department and formulates and establishes the general policies to be pursued by its various branches 25,519.10

The following offices report directly to the Secretary's office:

Information: Prepares for dissemination, by means of notices to the press and otherwise, valuable agricultural information secured from publications of the department or through oral statements of its scientists and specialists with a view to the adoption of the methods recommended by the department 6,739.91

Inspection: Handles personnel matters; is charged with the accounting and administrative examination of claims and the preparation of financial reports involving appropriations under the Office of the Secretary; and assists in the fiscal operations of the bureaus 17,622.69

Exhibits: Assists in the preparation of agricultural material for exhibition purposes at fairs and expositions of various kinds, and ships, installs, cares for, and demonstrates such exhibits 20,739.52

Forest appeals: Considers appeals from the decisions of the Forest Service affecting land claims and land classification matters 11.60

Total	70,632.82

Assistant Secretary's Office.

Total expenditures as above	$9,026.57
Outstanding liabilities, Aug. 31	24.80
Total allotment	9,051.37

The Assistant Secretary of Agriculture becomes Acting Secretary in the absence of the Secretary and assists in the general supervision and administration of the work of the department 9,051.37

Solicitor's Office.

Total expenditures as above	91,267.63

The Solicitor is charged by law (act of May 26, 1910) with the direction of the legal work of the department. Accordingly, he acts as legal adviser to the Secretary and the heads of the several branches of the department, conducts the legal work, and represents the department in all legal matters. He approves, in advance of issue, all orders and regulations promulgated by the Secretary under statutory authority 91,267.63

Disbursing Office.

Total expenditures as above	47,045.28
Outstanding liabilities, Aug. 31 (estimated)	175.00
Unexpended balance (estimated)	754.45
Total allotment	47,974.73

This office keeps appropriate ledgers relating to the advance and disbursement of all items of appropriations and makes payment of all vouchers and accounts properly certified by the various branches of the department 47,220.28

EXPENDITURES OF THE DEPARTMENT OF AGRICULTURE.

OFFICE OF THE SECRETARY.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$733.49	.....	$201.17	$1,386.82	.....	.....	$7.00	.....	$2,389.37	$69,353.44	1
170.05	.....	.....	.....	.....	.....	.....	.....	488.99	9,026.57	2
347.29	.....	.....	.....	.....	.....	.....	.....	250.18	91,267.63	3
444.39	.....	.....	.....	.....	.....	.....	.....	398.61	47,045.28	4
.....	.....	.....	.....	.....	.....	.....	.....	468.03	42,789.85	5
295.46	$107,954.90	3,958.75	182.09	$8,233.48	$2,157.96	22,439.75	$22,835.92	20,614.11	395,339.97	6
1,990.68	107,954.90	4,159.92	1,568.91	8,233.48	2,157.96	22,446.75	[1] 22,835.92	24,609.29	654,822.74	

[1] Electricians' and mechanics' supplies, $22,075.92; cleaning and toilet supplies, $760.

Library.

Total expenditures as above	$42,789.85
Outstanding liabilities, Aug. 31 (estimated)	2,597.41
Unexpended balance (estimated)	69.38
Total allotment	45,456.64

The library purchases all books and periodicals and supervises their arrangement and cataloguing; prepares for publication bibliographies of special subjects, and has charge of the foreign mailing lists for the department publications.... 45,387.26

Chief Clerk's Office.

Total expenditures as above	395,339.97
Outstanding liabilities, Aug. 31 (estimated)	6,553.76
Unexpended balance (estimated)	2,572.60
Total allotment	404,466.33

Distributed among the several subactivities as follows:

Chief clerk's office proper: The chief clerk has general supervision of the clerks and employees, of the order of business, of the records of the Secretary's office, and of expenditures from appropriations for miscellaneous expenses, rent of buildings in the city of Washington, etc. He is responsible for the enforcement of the general regulations of the department and is custodian of the buildings. This project includes work of the time clerk, operation of the telephone and telegraph booth, and provision for miscellaneous supplies and services for the department as a whole..... 81,098.50

Appointment clerk's office: Prepares all papers relating to appointments, transfers, promotions, reductions, details, furloughs, and removals; keeps personal records of employees, etc..... 14,216.15

Supply section: Purchases stationery and miscellaneous supplies for the Office of Secretary and the various bureaus; receives and disposes of, by sale or otherwise, all property turned in by the bureaus and offices when of no further use, and sells unused samples of products secured in connection with the enforcement of the food and drugs act and the insecticide act..... $8,275.91

Chief engineer's office: Has supervision of the engineers, firemen, and elevator-operator force, except those of the Weather Bureau, and provides heat, light, power, and electricity for all buildings of the department in Washington except the Weather Bureau and the Forest Service..... 36,572.60

Mails and files: Receiving, recording, and distributing mail for the Office of the Secretary; indexing, copying, filing, and dispatching correspondence of that office; includes department post office, which receives, distributes, and dispatches all mail handled between the city post office and the several bureaus..... 14,030.88

Watch force: Protects and watches 25 buildings occupied by the department in three shifts, covering the entire 24 hours. 37,380.73

Shop force: Maintenance of the mechanical shops for the repair and upkeep of the buildings, laboratories, and equipment, including carpenter, plumbing, electrical iron, painting, and rubber-stamp work.. 75,933.83

Char force: Provides for cleaning and keeping in sanitary condition the halls and toilets of the department buildings and the cleaning of rooms in the different units of the Office of the Secretary..... 17,997.26

Stables: Feeding, care, and driving of the horses and care of vehicles used by the Office of the Secretary and the Division of Publications..... 8,432.97

Rent in the District of Columbia for the various bureaus and offices of the department..... 107,954.90

Total	401,893.73

WEATHER BUREAU.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Administrative and overhead expenses.	$157,375.33	$6,060.66	.....	$163,435.99	$205.00	.....	$2,604.10	$3,880.60
2	Washington station expenses...	57,390.16	32,146.17	.....	89,536.33	35.00	$551.82	406.01	6,781.17
3	Stations out of Washington.....	108,665.02	.....	$686,059.75	794,724.77	22,541.62	12,976.14	5,953.10	22,898.31
	Total.....	323,430.51	38,206.83	686,059.75	1,047,697.09	22,781.62	13,527.96	8,963.21	33,560.08

PROJECT STATEMENTS.

Administrative and Overhead Expenses.

Total expenditure as above.....	$183,939.01
Outstanding liabilities, Aug. 31 (estimated)	2,502.01
Unexpended balance (estimated).....	9,068.98
Total allotment.....	195,510.00

Distributed among the several subactivities as follows:

Office of chief: Directs the policy and business affairs of the bureau and supervises its public service and scientific activities.	8,300.65
Office of chief clerk: Supervises the personnel of the bureau; carries on administrative, clerical, and other work in connection with files, mail, drawings, photographs, and lantern slides; and cares for buildings and grounds, stable, horses, and vehicles.....	62,329.67
Instruments: Supervises the issue, exposure, and installation of the entire instrumental equipment of the bureau; supervises the equipment and personnel of the storm-warning stations of the bureau....	15,526.30
Telegraph and telephone: Maintains a branch telegraph and telephone office for the administrative and overhead functions of the Washington office.....	2,005.75
Stations and accounts: Supervises the issuing of authorizations for all expenditures; audits, adjusts, and prepares for payment all accounts and claims against the Weather Bureau; keeps all book and other records in connection therewith; prepares annual estimates of appropriations; selects and rents quarters and offices; supervises the construction and repair of all Weather Bureau buildings outside of Washington.....	22,242.35
Supplies: Supervises, purchases, and distributes all Weather Bureau supplies; cares and accounts for all bureau property; provides for the condemnation, sale, and disposition by other means of property and supplies lost, stolen, or worn out in service.....	15,509.45
Forecasts: Supervises all forecast work done at outlying stations of the bureau, including publication and dissemination by maps, cards, telegraph and telephone messages, and press reports of weather synopses and general forecasts.....	5,814.75
River and flood work: Supervises the river and flood work conducted at the outlying stations, including their coordinated and related substations; maintains river-gauging stations and disseminates river information.....	3,206.60
Climatological work: Supervises cooperative and special stations maintained in connection with the corn, wheat, cotton, sugar, and rice industries; checks and verifies station reports and files original records at the central office; supervises the publication at section centers of the monthly reports of climatological data...	$27,500.25
Editorial work: Supervises all editorial work in connection with manuscripts of technical meteorological papers submitted for publication, including the Monthly Weather Review, its supplement, annual summary, and any other publications of a general meteorological character that may be authorized.....	6,212.75
Library: Maintains a library in Washington, supervises station libraries, prepares indexes and bibliographic lists of meteorological and allied literature, translates correspondence in foreign languages, and conducts promotion examinations.....	7,542.20
Printing: Publishes the Monthly Weather Review and other general publications; prints cards, franks, forms, and central office and station instructions.....	10,250.30
Total.....	186,441.02

The Washington Station.

Total expenditure as above.....	152,035.53
Outstanding liabilities, Aug. 31 (estimated)	105.70
Unexpended balance (estimated).....	658.77
Total allotment.....	152,800.00

Distributed among the several subactivities as follows:

Collection and dissemination of climatological and meteorological information: Observing and recording weather conditions in Washington; charting and study of telegraphic reports of weather conditions in the Northern Hemisphere; issuing of forecasts and frost, cold-wave, flood, storm, small-craft, and hurricane warnings; dissemination of meteorological, climatological, and seismological information by telegraph, telephone, maps, cards, and bulletins.....	127,361.03
Improvement in instrumental equipment: Selection, testing, improvement, and designing of instrumental apparatus for the scientific work of the bureau.....	1,442.20
Investigations of the problems of forecasting: Study of the weather maps and other meteorological data with reference to storms of different types and of their	

WEATHER BUREAU.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$2,590.04	.....	$2,305.05	$452.53	.....	$201.50	$2,845.55	$672.13	$4,746.52	$183,939.01	1
13,927.75	.....	36,213.02	16.95	$107.97	30.37	.....	503.47	3,925.67	152,035.53	2
24,426.66	$85,158.13	209,881.06	8,631.65	4,632.24	168.50	8,888.67	11,601.25	39,274.45	1,251,756.55	3
40,944.45	85,158.13	248,399.13	9,101.13	4,740.21	400.37	11,734.22	[1] 12,776.85	47,946.64	1,587,731.09	

[1] Advertising and publication of notices, $77.35; printing, engraving, lithographing, and binding, $7,024.95; mechanics', engineers', and electricians' supplies, $4,005.24; cleaning and toilet supplies, $1,546.31; structures and parts, $123.

effect upon weather conditions throughout the United States, with a view to improve the accuracy of forecasts and to formulate rules and enunciate principles in connection therewith..... $4,106.35

Investigations in climatology: Compilation and reduction of the daily meteorological records from the large corps of observers scattered throughout all portions of the country; publication of data in the form of tables, charts, and diagrams; and discussion of the conditions disclosed from an examination and study of the data collected..... 3,456.60

River and flood investigations: Compilation and study of records of precipitation in the various watersheds, and an attempt to correlate them with resulting flood stages; determination of the relation between rainfall of various intensities and the stages of water reached in the rivers.. 1,525.25

Solar-radiation investigations: Determination of the insolation received in heat units on a horizontal surface from the sun and sky under all sky conditions and of the effect of atmospheric conditions on nocturnal radiation; and measurement of the insolation received through ray filters under different conditions..... 3,706.05

Meteorological investigations: Determination of the nature of meteorological phenomena and the laws of their actions.... 1,775.25

Aerological research: Computing, plotting, comparing, and reducing observations obtained in the lower strata of atmosphere by means of kites and captive balloons and in the higher atmosphere by means of free balloons, with a view to increase the present knowledge of dynamic meteorology..... 4,682.75

Seismological investigations: Consists of the mapping of the United States according to seismological activity and the locating of geological faults; detailed studies of earthquake vibrations and the deduction of inference therefrom in regard, on the one hand, to the scientifically important problem of the structure of the earth and, on the other, to the practical question of types of buildings best adapted to withstand seismic shocks..... 2,770.60

Determination of the relative values of evaporation in the United States: Determination under standard conditions of exposure of the relative values of evaporation in various portions of the United States; establishment of the relation between evaporation under these standard conditions and the climatological factors that combine to bring it about..... $1,315.15

Total..... 152,141.23

Stations Outside of Washington.

Total expenditure as above.....	1,251,756.55
Outstanding liabilities, Aug. 31 (estimated).	47,816.18
Unexpended balance (estimated).....	19,387.27
Total allotment.....	1,318,960.00

General statement of the work.

The Weather Bureau maintains about 200 regular stations outside of Washington, occupying offices in Federal buildings, rented quarters, or special buildings erected for the purpose by the department. These stations are manned by trained commissioned officials and assistants, who devote their whole time to the Weather Bureau work Coordinated and related to these principal stations there are also maintained over 4,000 cooperative, special meteorological, and other minor stations, each of which is provided with a very simple set of instruments installed, as a rule, at the residence of the observer, who gives but a few minutes of his time each day to the work. With very few exceptions no quarters are provided or rents paid, and the service is rendered gratuitously, except in some cases where the observers receive from $5 to not to exceed $25 per month. The activities at the 200, more or less, principal stations are similar in all respects to the activities described under the Washington station. All the lines of work are not performed at all the stations, nor are the same lines of work conducted at each and every station. The work, which is comprised in general under the following heads, is briefly described below:

Meteorological observations: The taking, recording, enciphering, telegraphing, compiling, and tabulating of regular meteorological observations, and the care and maintenance of the instrumental equipment therefor.

Daily weather forecasts: The preparing of daily weather forecasts, including frost and cold-wave warnings and wind forecasts in connection with forest-fire prevention; also the printing of same or issuance by other means and dissemination by maps, bulletins, and telegraph and telephone messages; and press reports of weather synopses, forecasts, and full and complete information concerning the current local weather conditions in all their phases.

Storm, small-craft, and hurricane warnings: Storm small-craft, and hurricane warnings, disseminated at coast, Gulf, West Indies, and Great Lake stations; chiefly the distribution of such warnings and the giving out of related information through the medium of coordinated display substations and by means of printed cards, telephone messages, and otherwise.

Climatological and crop reports: The climatological and crop reporting service comprises the collection during the crop season, from April 16 to October 31, of daily telegraphic reports from selected substations organized into services, reporting in the interests of cotton, corn, wheat, sugar, rice, tobacco, fruit, and other standard crops; includes the printing and prompt dissemination of the information to the public, to commercial exchanges, and to all parties and organizations interested in or benefited by the service that can be promptly reached by the usual means of communication available.

River and flood warning service: The river and flood warning service comprises the maintenance of substations which observe and report rainfall, river stages, and like conditions, and the dissemination of flood information to the public, and especially to the parties and interests most directly benefited thereby.

Investigations and research: (1) General meteorology and climatology: Many station officials are engaged upon continuing studies carried on intermittently in general meteorolgy and climatology, weather forecasting, river and flood work, evaporation work, and frost-warning work as affecting and contributing to the protection of various standard crops and other allied scientific studies and investigations. (2) Aerology: Investigations in aerology are conducted only at Drexel and Fort Omaha, Nebr., except occasional balloon ascensions for specific purposes. They consist of the study of the upper-air conditions by means of kites and balloons for the purpose of fixing the general meteorological data in the whole atmospheric mass. The results thus far obtained disclose conditions of temperature, pressure, water vapor, and wind in this region that are of great value and importance in the study of dynamic meteorology. The cost of this work is stated under the Drexel station. (3) Solar radiation: Investigations in solar radiation are conducted at Madison, Wis., Lincoln, Nebr., and Santa Fe, N. Mex., and the cost is included in the expenditures listed under these stations. Accurate measurements of the heat that is obviously continuously received day by day from the sun and its possible variations are the fundamental data of all physical meteorology, since the heat from the sun is the primary source of all weather phenomena. This element is now subject to daily measurements. The improvement and extension of the observations are going forward steadily. (4) Evaporation: Evaporation investigations are conducted at Wagon Wheel Gap, Colo. They consist of the measurement of the evaporation of water from vegetation, the soil, and water surfaces in general, which will be of special application in connection with reclamation, irrigation, and water-power projects. (5) Seismology: Seismological investigations are conducted at San Francisco, Cal., consisting of the study of earthquake vibrations.

Educational work: Comprises lectures and courses of instruction in meteorology given by Weather Bureau officials, often according to definite schemes of cooperation between universities, colleges, and other educational institutions and the local representatives of the Weather Bureau. In several cases the Weather Bureau occupies quarters in the institution concerned, or its office building is located on the university campus. The services are rendered in most cases without additional compensation to the Weather Bureau official, but in some cases a nominal honorarium is tendered by the institution, and the services are performed without interference with the station work. No direct expenditure of Government funds is involved in any case.

The cost and character of the work at each station are given below:

Station.	Nature of work.[1]	Amount.	Station.	Nature of work.[1]	Amount.
Abilene, Tex	a	$1,894.94	Eastport, Me	a	$2,064.55
Albany, N. Y	a, b	6,609.85	Elkins, W. Va	a	2,290.43
Alpena, Mich	a, b, e	3,896.26	El Paso, Tex	a	2,976.16
Amarillo, Tex	a	3,685.71	Erie, Pa	a	5,667.28
Anniston, Ala	a	1,681.39	Escanaba, Mich	a	2,380.09
Asheville, N. C	a	3,027.41	Eureka, Cal	a	2,326.06
Atlanta, Ga. (section center)	a, b, c	12,888.55	Evansville, Ind	a, b	4,483.55
Atlantic City, N. J	a	3,488.83	Fort Smith, Ark	a, b	4,856.19
Augusta, Ga	a, b, c	6,265.31	Fort Wayne, Ind	a	6,129.79
Baker, Oreg	a	1,474.35	Fort Worth, Tex	a	4,059.66
Baltimore, Md. (section center)	a, c, d	8,991.02	Fresno, Cal	a, b	6,892.12
Bentonville, Ark	a	1,373.67	Galveston, Tex	a	5,496.86
Binghamton, N. Y	a, b	5,021.77	Grand Haven, Mich	a	2,070.85
Birmingham, Ala	a	4,956.72	Grand Junction, Colo	a	4,347.42
Bismarck, N. Dak. (section center)	a, b, c	6,022.71	Grand Rapids, Mich. (section center)	a, b, c, d	8,659,92
Block Island, R. I	a, e	2,046.28	Green Bay, Wis	a	2,676.60
Boise, Idaho (section center)	a, c, d	6,292.20	Hannibal, Mo	a, b	2,954.19
Boston, Mass. (section center)	a, c, d	21,848.71	Harrisburg, Pa	a, b	4,801.83
Buffalo, N. Y	a, d	13,825.63	Hartford, Conn	a, b	6,086.45
Burlington, Vt	a, d	4,435.31	Hatteras, N. C	a, e	2,093.01
Cairo, Ill	a, b	4,419.23	Havre, Mont	a	1,819.63
Canton, N. Y	a	2,967.35	Helena, Mont. (section center)	a, c, d	8,927.11
Cape Henry, Va	a, e, f	8,827.20	Honolulu, Hawaii (section center)	a, c	6,745.44
Charles City, Iowa	a	2,087.44	Houghton, Mich	a	3,291.91
Charleston, S. C	a, b, c	7,326.60	Houston, Tex. (section center)	a, b, c	18,892.34
Charlotte, N. C	a	3,977.92	Huron, S. Dak. (section center)	a, c, d	5,654.95
Chattanooga, Tenn	a, b	8,270.99	Indianapolis, Ind. (section center)	a, b, c	12,440.46
Cheyenne, Wyo	a, c, d	6,758.86	Iola, Kans	a, c	1,753.22
Chicago, Ill. (district forecast center)	a, c, e	45,083.24	Ithaca, N. Y. (section center)	a, c, d	5,962.65
Cincinnati, Ohio	a, b	17,574.37	Jacksonville, Fla. (section center)	a, c, d	15,986.74
Cleveland, Ohio	a, d	12,892.16	Kalispell, Mont	a	1,852.54
Columbia, Mo. (section center)	a, c, d	4,788.52	Kansas City, Mo	a, b, c	13,002.89
Columbia, S. C. (section center)	a, b, c, d	7,066.67	Keokuk, Iowa	a, b	2,075.86
Columbus, Ohio (section center)	a, b, c, d	16,881.84	Key West, Fla	a, e, f	7,084.42
Concord, N. H	a, b	3,182.63	Knoxville, Tenn	a, b	5,538.48
Concordia, Kans	a	1,761.83	La Crosse, Wis	a, b	4,684.25
Corpus Christi, Tex	a	3,514.92	Lander, Wyo	a	1,543.22
Dallas, Tex	a	5,183.83	Lansing, Mich	a, d	5,066.96
Davenport, Iowa	a, b	6,254.10	Lewiston, Idaho	a	2,656.77
Dayton, Ohio	a, b	6,526.55	Lexington, Ky	a	3,195.93
Del Rio, Tex	a	1,353.88	Lincoln, Nebr. (section center)	a, c, d, h	9,319.64
Denver, Colo. (district forecast and section center).	a, b, c, d	23,428.13	Little Rock, Ark. (section center)	a, b, c, d	12,066.93
			Los Angeles, Cal	a, d	12,767.07
Des Moines, Iowa (section center)	a, b, c, d	7,514.08	Louisville, Ky. (section center)	a, b, c, d	14,859.40
Detroit, Mich	a	11,344.40	Ludington, Mich	a	3,188.72
Devils Lake, N. Dak	a	2,136.32	Lynchburg, Va	a	3,074.85
Dodge City, Kans	a	1,637.03	Macon, Ga	a, b	4,308.67
Drexel, Nebr	g	8,907.38	Madison, Wis	a, d, h	4,332.15
Dubuque, Iowa	a, b	5,580.86	Marquette, Mich	a	3,288.07
Duluth, Minn	a	7,055.84	Memphis, Tenn	a, b, c	8,398.26

[1] The letters in this column have the following meaning: a, meteorological observations and reports and daily weather forecasts; b, river and flood work; c, climatological and crop work; d, educational work; e, maintenance of United States telegraph line; f, vessel reporting; g, aerological observations; h, solar-radiation investigations.

Station.	Nature of work.	Amount.
Meridian, Miss	a, b	$4,795.11
Miami, Fla	a	2,758.68
Milwaukee, Wis. (section center)	a, c, d	13,269.52
Minneapolis, Minn. (section center)	a, b, c, d	14,884.65
Mobile, Ala	a, b, c	6,882.31
Modena, Utah	a	1,713.25
Montgomery, Ala. (section center)	a, b, c	8,093.49
Mount Weather, Va	a	7,380.45
Nantucket, Mass	a	2,188.01
Narragansett Pier, R. I	a	1,340.59
Nashville, Tenn. (section center)	a, b, c, d	12,080.79
New Haven, Conn	a, d	7,516.13
New Orleans, La. (district forecast and section center).	a, b, c, d	28,903.36
New York, N. Y	a	31,731.01
Norfolk, Va	a	11,189.91
Northfield, Vt	a, d	3,896.26
North Head, Wash	a, e	1,535.63
North Platte, Nebr	a	2,782.26
Oklahoma, Okla. (section center)	a, c, e	11,748.58
Omaha, Nebr	a, b, c	8,813.84
Oswego, N. Y	a	1,985.76
Palestine, Tex	a	2,570.25
Parkersburg, W. Va. (section center)	a, b, c	4,816.31
Pensacola, Fla	a	5,526.10
Peoria, Ill	a, d	5,299.05
Philadelphia, Pa. (section center)	a, b, c, d	17,282.02
Phoenix, Ariz. (section center)	a, b, c, d	7,503.40
Pierre, S. Dak	a	1,418.94
Pittsburgh, Pa	a, b	16,096.90
Pocatello, Idaho	a	1,881.57
Port Crescent, Wash	a, e, f	8,956.82
Port Huron, Mich	a	2,269.20
Portland, Me	a, b	5,965.95
Portland, Oreg. (district forecast and section center).	a, b, c, d	26,852.25
Providence, R. I	a	6,636.09
Pueblo, Colo	a	3,346.01
Raleigh, N. C. (section center)	a, b, c	13,213.35
Rapid City, S. Dak	a	1,781.45
Reading, Pa	a	4,608.13
Red Bluff, Cal	a	2,485.49
Reno, Nev. (section center)	a, c	6,944.03
Richmond, Va. (section center)	a, b, c, d	8,688.22
Rochester, N. Y	a	4,485.43
Roseburg, Oreg	a	2,745.85
Roswell, N. Mex	a	1,307.02
Sacramento, Cal	a, b	6,206.91
Saginaw, Mich	a, b, d	4,355.73
St. Joseph, Mo	a	4,817.65
St. Louis, Mo	a, b, c, d	24,529.43
St. Paul, Minn	a	$3,981.49
Salt Lake City, Utah (section center)	a, b, c, d	11,247.84
San Antonio, Tex	a	5,043.75
San Diego, Cal	a	4,689.06
Sandusky, Ohio	a	4,095.18
Sandy Hook, N. J	a	3,943.33
San Francisco, Cal. (district forecast and section center).	a, d, e	33,917.79
San Jose, Cal	a	1,496.71
San Juan, P. R., W. I., (section center)	a, c	3,488.77
San Luis Obispo, Cal	a	1,862.18
Santa Fe, N. Mex. (section center)	a, c, d, h	5,696.74
Sault Ste. Marie, Mich	a	3,845.63
Savannah, Ga	a, c	8,502.98
Scranton, Pa	a	4,658.44
Seattle, Wash. (section center)	a, c, d	15,757.10
Sheridan, Wyo	a	2,664.26
Shreveport, La	a, b	4,069.98
Sioux City, Iowa	a, b	4,021.27
Spokane, Wash	a	5,644.27
Springfield, Ill. (section center)	a, c, d	8,201.19
Springfield, Mo	a, d	4,090.87
Syracuse, N. Y	a, d	4,426.92
Tacoma, Wash	a	4,194.17
Tampa, Fla	a	4,486.38
Tatoosh Island, Wash	a, e, f	2,278.02
Taylor, Tex	a	3,120.88
Terre Haute, Ind	a, b	6,882.94
Thomasville, Ga	a	2,446.57
Toledo, Ohio	a	5,442.88
Tonopah, Nev	a	2,590.48
Topeka, Kans. (section center)	a, c, d	5,280.15
Trenton, N. J. (section center)	a, c, d	8,807.14
Valentine, Nebr	a	1,930.56
Vicksburg, Miss. (section center)	a, b, c, d	7,683.17
Wagon Wheel Gap, Colo	a, c	3,528.97
Walla Walla, Wash	a	2,982.36
Wausau, Wis	a, b	599.60
Wichita, Kans	a, b	5,051.25
Williston, N. Dak	a	1,885.61
Wilmington, N. C	a, c	3,476.94
Winnemucca, Nev	a	1,763.40
Wytheville, Va	a	1,781.03
Yankton, S. Dak	a	1,330.10
Yellowstone Park, Wyo	a	2,492.38
Yuma, Ariz	a	1,438.15
Alaskan stations	a	2,305.82
West Indian stations and foreign service	a	12,186.18
Administrative travel		2,825.15
Neah Bay building		3,293.00
Stores in stock		12,941.23

BUREAU OF ANIMAL INDUSTRY.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Administration	$98,287.02	$20,213.11		$118,500.13	$4,187.39	$4,910.60	$3,103.76	$4,671.95
2	Control of meat and meat food products.	119,264.31	51,216.34	$2,957,152.03	3,127,632.68	35,771.76	14,201.04	2,970.91	4,833.45
3	Eradication and control of animal diseases.	26,583.57	34,535.20	755,392.82	816,511.59	503,377.99	5,070.28	864.05	29,607.04
4	Eradication of cattle ticks	9,259.04	3,847.30	224,435.36	237,541.70	81,881.86	1,233.67	92.25	618.56
5	Dairy investigations	20,990.71	81,854.18	80,474.41	183,319.30	35,828.17	7,998.04	1,952.31	7,332.08
6	Animal husbandry investigations.	15,595.77	29,349.95	82,833.51	127,779.23	19,894.67	1,343.73	899.58	2,974.89
7	Control of the manufacture, importation, and shipment of viruses, serums, etc.	1,476.93	6,404.12	45,904.90	53,785.95	11,101.70	211.24	49.50	671.50
8	Inspection and quarantine of imported animals.	4,822.65	5,973.62	55,599.70	66,395.97	11,707.38	217.73		170.33
9	Export live-stock inspection	1,095.72	607.97	5,337.51	7,041.20	55.45			
10	Investigations of animal diseases.	28,440.86	25,942.54	18,808.93	73,192.33	1,725.74	1,832.09	813.48	3,748.63
11	Enforcement of the 28-hour law.	847.24	1,440.00	6,130.91	8,418.15	1,725.12		5.85	
12	Investigation and eradication of hog cholera.	6,497.53	6,719.44	115,257.32	128,474.29	24,939.83	2,717.86	914.66	2,876.30
13	Live-stock production in cane-sugar and cotton districts.			19,263.47	19,263.47	7,090.07	583.19	96.25	2,514.55
	Total	333,161.35	268,103.77	4,366,590.87	4,967,855.99	739,287.13	40,319.47	11,762.60	60,019.28

PROJECT STATEMENTS.

Administration.

Total expenditures as above	$171,959.20
Outstanding liabilities, Aug. 31 (estimated)	3,280.93
Unexpended balance (estimated)	2,000.00
Total allotment	177,240.13

Distributed among the several subactivities as follows:

General administration: Supervision of the bureau activities and the performance of duties common to the bureau as a whole, the cost of which can not be readily prorated against the various projects involved, such as accounting and editorial work, the distribution of supplies, and matters relating to the personnel	123,758.88
Stores: This covers the purchase of miscellaneous supplies, the use of which is more or less common to the various laboratories and offices of the bureau and which are purchased from time to time and held in stock to be distributed as required	51,481.25
Total	175,240.13

Control of Meat and Meat Food Products.

Total expenditures as above	3,216,572.63
Outstanding liabilities, Aug. 31 (estimated)	8,823.04
Unexpended balance (estimated)	182,288.59
Total allotment	3,407,684.26

Distributed among the several subactivities as follows:

Supervision: General direction of the work of meat inspection, including the supervision of some 2,500 employees at all the slaughtering centers of the United States, and the performance of duties common to the whole work	64,533.27
Bacteriological investigations of meats and meat food products: Development by means of bacteriological studies of information concerning various phases of preparing meats and meat food products for human use, such as the determination of the cause of ham souring, the study of bacteria in hog carcasses and their relation ot meat poisoning, and the development of information for improving methods of curing meats, as well as routine examinations of meat samples to ascertain their wholesomeness	$3,440.22
Investigations of changes in fresh meats in cold storage: Bacteriological and chemical studies to ascertain the changes which take place in fresh beef stored under varying conditions and for varying lengths of time at temperatures above freezing; also to develop other information concerning the behavior of fresh meats in storage	5,231.20
Investigations of pathological conditions noted during meat inspection: Specimens of diseased tissues are received nearly every day from some of the abattoirs at which the bureau maintains inspection of meats and meat food products. These specimens are subjected to the necessary tests for forming a diagnosis, and the inspector in charge of the establishment which forwards the specimen is notified of the result. In many instances the proper disposition of the affected carcass has been suggested.	8,476.21
Manufacture and distribution of branding ink: The object of this project is to furnish bureau employees engaged in the work of meat inspection with a suitable marking fluid for stamping the carcasses of animals inspected and slaughtered under Federal supervision. This ink is prepared in the laboratory at Washington and forwarded upon request to inspectors in charge of meat inspection	1,592.08

BUREAU OF ANIMAL INDUSTRY.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$9,526.67	$5,802.07	$275.82	$502.84	$44.89	.....	.....	$2,565.12	$17,867.96	$171,959.20	1
368.62	16,494.13	5,671.52	2,428.32	157.38	$345.82	$5.27	618.46	5,073.27	3,216,572.63	2
357.90	4,342.75	9,103.22	1,014.08	19.89	29.78	.....	2,679,336.05	310,491.24	4,360,125.86	3
214.12	2,428.00	481.45	1,055.97	9.61	.....	.....	11.09	94.89	325,663.17	4
503.06	715.86	537.95	553.43	208.20	4,199.78	437.74	8,996.87	2,607.24	255,190.03	5
154.85	1,957.17	584.57	1,882.16	675.32	19,829.70	639.79	15,311.89	18,465.37	212,392.92	6
.34	8.00	54.11	331.49	.....	.....	.....	.....	235.95	66,449.78	7
.....	463.50	328.78	54.57	10.65	293.00	639.48	1,453.93	352.46	82,087.78	8
.....	.....	6.09	.....	.....	.....	.....	.....	.....	7,102.74	9
54.96	882.50	144.70	172.45	222.89	22,705.83	910.24	7,006.60	3,313.15	116,725.59	10
.....	.....	3.10	56.00	.....	.....	.....	.....	.....	10,208.22	11
32.17	305.00	628.10	2,704.16	172.44	10,563.18	151.60	9,294.33	35,201.39	218,975.31	12
248.73	33.00	75.09	634.33	.....	2,286.92	102.94	14,347.48	9,922.88	57,198.90	13
11,461.42	33,431.98	17,894.50	11,389.80	1,521.27	60,254.01	2,887.06	[1]2,738,941.82	403,625.80	9,100,652.13	

[1] Subsistence and care of animals and storage and care of vehicles, $13,433.68; mechanics', engineers', and electricians' supplies, $5,951.36; cleaning and toilet supplies, $2,104.99; structures and parts and nonstructural improvements to land, $39,064.65; purchase of animals for experimental and control purposes, $2,678,387.14.

Special supervisory inspection: Personal investigations at official establishments of the conduct of the meat-inspection service for the purpose of making the inspection service uniform, increasing the efficiency of the work, and improving the sanitary conditions..... $16,406.47

Meat-inspection brands: Under this project brands are provided for use in marking carcasses, parts of carcasses, and containers of meat and meat food products, including import meat and products, as required by law..... 2,499.83

Laboratory inspection of meats and meat food products: Inspection and examination to ascertain whether meat and meat food products prepared in official establishments or under exemption or shipped by farmers, as well as imported meat and meat products, are properly labeled and are sound, healthful, wholesome, and otherwise fit for human food; also to determine whether any prohibited substance has been used in their preparation. In this connection more than 33,000 samples were analyzed at the seven meat-inspection laboratories during the past year. This project also includes the physical, chemical, and bacteriological examination of water, ice, and other articles used in the preparation of meat and meat products, as well as other substances employed in and about official establishments..... 66,075.53

Ante-mortem inspection of animals for slaughter: This project deals with the inspection of live animals to detect such as show symptoms of or are suspected of being affected with any disease or condition which might cause their condemnation in whole or in part when slaughtered, so that such animals may be held apart and slaughtered separately from other animals. More than 58,000,000 animals were inspected last year..... 182,287.53

Post-mortem inspection of animals: Examination of the carcasses of all cattle, sheep, swine, and goats at the time of slaughter to determine the presence of any lesions of disease or other conditions which would render the meat or any part thereof unfit for human food, with the view of condemning and causing to be destroyed for food purposes all carcasses and parts found on final inspection to be unsound, unhealthful, unwholesome, or otherwise unfit for human food..... $1,163,869.52

Supervision of the preparation and distribution of meats: A reinspection of meat and meat products prepared within and brought into official establishments and departments thereof to see that no unfit meat or product is used in the various processes of preparation, packing, salting, smoking, canning, etc., to assure proper labeling, to see that establishments are maintained in a sanitary condition, that the workers are clean as to person and raiment, and that deleterious preservatives and ingredients are not used, and otherwise to enforce compliance with the meat-inspection law and regulations..... 1,336,175.87

Miscellaneous meat inspection: Includes various minor transactions incidental to the maintenance of meat inspection at some 228 cities, the transfer of employees between stations, and other miscellaneous items which are common to the control of meat and meat products at such cities. 336,453.64

Inspection of meats for the United States Navy: This inspection is conducted at the request of the Navy Department to insure that the meat and meat food products furnished the Navy not only have been inspected and passed and are so marked and that they are sound and fit at the time of delivery but also that such articles are prepared and handled in accordance with the specifications of the Navy Department..... 6,320.81

Inspection at public markets: The object of this inspection is to provide for the interstate transportation or export from public markets of portions of inspected and passed meats and meat products which, when cut or otherwise removed from a marked carcass, part, or container, do not show the meat-inspection legend.. $12,214.50

Investigations of trichinosis and measles, and other zoological investigations relating to meat inspection: Study of the effects of refrigeration on the beef-measles parasite and trichina, and determination of temperatures to which pork should be subjected in cooking in order to destroy the vitality of trichina. It has been found that trichinæ are extremely susceptible to low temperatures and that trichinous meat exposed to a temperature of 5° F. for a period of 20 days is rendered innocuous..... 2,051.39

Operations conducted under certificates of exemption: The work under this project is for the purpose of ascertaining whether or not shippers are in reality retail butchers, retail dealers, or farmers; also to see that the premises in which animals are slaughtered or where meat and meat food products are prepared by or for persons who make interstate shipments under exemption from inspection, as provided by law, are maintained in a sanitary condition, and that the articles so shipped are sound, healthful, wholesome, and fit for human food..... $1,597.96

Examination of imported meats and meat food products: Operations under this project are directed to prevent the importation of meat and meat food products from cattle, sheep, swine, and goats which are not properly certified, or which are falsely labeled, or which are unsound, unhealthful, unwholesome, or otherwise unfit for human food, or which contain any prohibited dye, chemical, or other ingredient..... 15,993.39

Investigations of oleomargarine for tubercle and infectious-abortion bacilli: Tests of oleomargarine samples to detect the presence of tubercle or infectious-abortion bacilli by means of feeding and inoculation experiments, using small animals... 176.25

Total..... 3,225,395.67

The meat-inspection work described in the preceding paragraphs was conducted at Washington, D. C., and 247 stations in the field. The approximate cost and the character of the work conducted at each station are given below:

Station.	Nature of work.[1]	Amount.	Station.	Nature of work.[1]	Amount.
Albany, N. Y.	a, b, c, d, j	$8,258.01	Jacksonville, Ill.	a, b, c, d	$3,214.67
Albert Lea, Minn.	a, b, c, d	3,540.72	Jefferson, Wis.	a, b, c	2,004.86
Allentown, Pa.	a, b, c, d, l	7,715.59	Jersey City, N. J.	a, b, c, d	40,748.66
Alton, Ill.	a, b, c, d, l	3,778.91	Kansas City, Kans.	a, b, c, d, i, l, o	268,806.98
Arkansas City, Kans.	a, b, c, d	2,988.80	Kirksville, Mo.	a, b, c	1,208.32
Auburn, Me.	a, b, c, d, l	3,127.95	La Crosse, Wis.	a, b, c, d, e, l	3,062.80
Augusta, Ga.	a, b, c, d, e, f, j	11,566.42	Lafayette, Ind.	a, b, c, d, l	4,389.68
Austin, Minn.	a, b, c, d	15,139.80	Lewiston, Idaho	a, b, c, d	4,626.94
Baltimore, Md.	a, b, c, d, l	46,535.99	Lincoln, Nebr.	a, b, c, d	315.00
Bellows Falls, Vt.	b, c	3,285.81	Little Rock, Ark.	a, b, c	368.00
Bisbee, Ariz.	a, b, d	138.44	Logansport, Ind.	a, b, c, d	3,929.45
Bismarck, N. Dak.	j	44.85	London, England	o	3,667.99
Boston, Mass.	a, b, c, d, e, f, g, j	83,754.87	Los Angeles, Cal.	a, b, c, d, l	38,141.10
Bridgeport, Conn.	c	1,383.55	Louisville, Ky.	a, b, c, d, l	11,003.63
Brightwood, Mass.	a, b, c, d, l	13,967.87	Madison, Ind.	a, b, c, d	1,815.40
Brooklyn, N. Y.	a, b, c, d, f, j	37,429.01	Manchester, N. H.	c, g	1,529.95
Buffalo, N. Y.	a, b, c, d, j	60,124.86	Marshalltown, Iowa.	a, b, c, d	5,660.19
Burlington, Vt.	a, b, c, d, e	1,905.41	Mason City, Iowa.	a, b, c, d, l	6,544.00
Calais, Me.	d	1.21	Memphis, Tenn.	a, b, c, d	10,384.83
Cedar Rapids, Iowa.	a, b, c, d	23,451.11	Menominee, Mich.	a, b, c, d	1,842.20
Cheyenne, Wyo.	a, b, c, d	3,531.65	Milwaukee, Wis.	a, b, c, d, e, l	58,508.87
Chicago, Ill.	a, b, c, d, h, i, o	512,823.71	Morristown, Tenn.	a, b, c, d	3,045.57
Cincinnati, Ohio.	a, b, c, d, l	83,655.18	Moscow, Idaho	c	986.90
Cleveland, Ohio.	a, b, c, d	64,661.23	Nashville, Tenn.	a, b, c, d, o	7,631.11
Coldwater, Mich.	d	16.35	Natchez, Miss.	a, b, c, d, e	9,042.71
Columbus, Ohio.	a, b, c, d, l	6,748.27	National Stock Yards, Ill.	a, b, c, d, i	112,608.76
Cortland, N. Y.	a, b, c, d, e, g, j	8,630.47	Nebraska City, Nebr.	a, b, c, d, l	6,793.89
Cumberland, Md.	c	1,327.60	Newark, N. J.	b, c, d, j, l	18,478.21
Davenport, Iowa.	a, b, c, d	5,292.56	New Haven, Conn.	a, b, c, d, j	8,583.90
Dayton, Ohio	a, b, c, d	11,673.22	New Orleans, La.	a, b, c, d, f, j	16,844.56
Denver, Colo.	a, b, c, d	32,118.59	New York, N. Y.	a, b, c, d, e, f, g, i, j, o	178,392.46
Des Moines, Iowa	c	75.00	Norfolk, Va.	c, d	5,016.69
Detroit, Mich.	a, b, c, d, j	34,924.63	North Tazewell, Va.	a, b, c, d, l	3,362.51
Dubuque, Iowa.	a, b, c, d	3,334.37	Ogden, Utah	a, b, c, d	4,664.81
Duluth, Minn.	a, b, c, d, j, l	3,802.97	Oklahoma, Okla.	a, b, c, d, l	42,272.08
Eau Claire, Wis.	a, b, c, d	4,055.82	Ottumwa, Iowa.	a, b, c, d, l	23,022.12
El Paso, Tex.	c, j	5,949.50	Paterson, N. J.	a, b, c, d	15,190.44
Evansville, Ind.	a, b, c, d, l	5,010.95	Peoria, Ill.	a, b, c, d	7,800.47
Fairmont, Minn.	a, b, c	195.00	Philadelphia, Pa.	a, b, c, d, e, f, g, j, l, o	84,045.48
Fargo, N. Dak.	c	1,320.30	Pittsburg, Kans.	a, b, c, l	2,001.10
Faribault, Minn.	a, b, c, d, l	1,860.05	Pittsburgh, Pa.	a, b, c, d, l	29,586.78
Fergus Falls, Minn.	a, b, c, d	1,920.00	Port Huron, Mich.	j	35.00
Fort Smith, Ark.	c	1,430.00	Portland, Me.	a, b, c, d, g, j	7,647.65
Fort Wayne, Ind.	a, b, c, d	4,567.00	Portland, Oreg.	a, b, c, d, f, g, j, o	23,577.34
Fort Worth, Tex.	a, b, c, d, l	57,299.99	Pottsville, Pa.	a, b, c, d	5,283.85
Frederick, Md.	a, b, c	720,00	Providence, R. I.	a, b, c, d	21,565.68
Grand Rapids, Wis.	a, b, c, e	2,651.36	Pueblo, Colo.	a, b, c, d	4,044.40
Hallstead, Pa.	a, b, d	1,818.95	Quincy, Ill.	c, l	1,289.00
Harrisburg, Pa.	a, b, c, d	6,627.49	Reno, Nev.	a, b, c, d	3,931.08
Hartford, Conn.	c	1,355.85	Richmond, Ind.	a, b, c, d	1,931.75
Haverhill, Mass.	a, b, c, d, l	5,763.00	Richmond, Va.	a, b, c, d, l	14,467.44
Houston, Tex.	a, b, c, d	13,951.80	Rochester, N. Y.	g	1,375.21
Indianapolis, Ind.	a, b, c, d	62,168.79	St. Louis, Mo.	a, b, c, d, g, l	68,930.33

[1] The letters in this column have the following meaning: a, ante-mortem inspection of animals for slaughter; b, post-mortem inspection of animals; c, supervision of the preparation and distribution of meats; d, miscellaneous meat inspection; e, supervision of operations conducted under certificates of exemption; f, inspection of meats for the United States Navy; g, inspection at public markets; h, investigations of pathological conditions noted during meat inspection; i, laboratory inspection of samples of meat and meat food products; j, examination of imported meat and meat food products; k, purchase of meat-inspection brands; l, preparation and distribution of branding ink; m, bacteriological investigations of meat and meat food products; n, investigations of changes in meats in cold storage; o, special supervisory inspection.

Station.	Nature of work.	Amount.
Salt Lake City, Utah	c	$2,210.89
San Diego, Cal	a, b, c, d, f	6,196.07
San Francisco, Cal	a, b, c, d, f, g, i, j	28,838.88
Seattle, Wash	a, b, c, d, f, j	26,374.17
Shreveport, La	c	1,302.80
Sioux City, Iowa	a, b, c, d, l	71,983.07
Sioux Falls, S. Dak	a, b, c, d	15,973.82
South Omaha, Nebr	a, b, c, d, h, i, l, o	177,325.20
South St. Joseph, Mo	a, b, c, d, l	105,144.94
South St. Paul, Minn	a, b, c, d, e, j, l	43,726.61
Spokane, Wash	a, b, c, d, j	18,171.76
Stamford, Conn	c	268.01
Tacoma, Wash	a, b, c, d, j	6,310.40
Terre Haute, Ind	a, b, c, d	4,339.60
Texarkana, Tex	c, l	$1,399.60
Toledo, Ohio	a, b, c, d	8,251.95
Topeka, Kans	a, b, c, d	6,927.82
Walla Walla, Wash	a, b, c, d	4,341.69
Washington, D. C	a, b, c, d, e, g, h, i, j, k, l, m, n, o.	120,986.65
Waterloo, Iowa	a, b, c, d, l	7,771.12
Watertown, S. Dak	d	1,800.73
Wheeling, W. Va	a, b, c, d	12,150.48
Wichita, Kans	a, b, c, d	38,419.46
Wilmington, Del	a, b, c, d	6,409.25
Winona, Minn	a, b, c, d	5,067.69
Worcester, Mass	a, b, c, d, g	10,235.46

Eradication and Control of Animal Diseases.

Total expenditures as above	$4,360,125.86
Outstanding liabilities, Aug. 31 (estimated)	34,966.57
Unexpended balance (estimated)	1,354,977.11
Total allotment	5,750,069.54

Distributed among the several subactivities as follows:

Supervision: General direction of the projects relating to the eradication and control of animal diseases and the performance of duties common to the work as a whole	$10,421.34
Supervision of interstate transportation of live stock: Examination and inspection of all live stock unloaded at market centers and public stockyards where Federal inspection is maintained to determine the presence in any of the animals of communicable diseases; issuance of certificates covering interstate movement of animals free from disease or which have been treated under bureau supervision; supervision of the cleaning and disinfection of cars, other vehicles, and yards which have contained animals found to be affected with communicable diseases	123,992.59
Eradication of scabies in sheep: Cooperation with States in which scabies in sheep exists by providing quarantine measures to prevent its spread and by demonstrating proper methods of treatment; includes the inspection of animals in the area where scabies exists and the dipping of diseased or exposed animals under Federal or State supervision, also the cleaning and disinfection of cars, yards, and other premises exposed to the disease	121,056.07
Eradication of mange (scabies) in cattle and horses: The object of this work and the methods employed are similar to those followed in the case of sheep scabies	63,811.45
Inspection and tuberculin testing of cattle and mallein testing of horses and mules for interstate movement: Inspection and testing of cattle for the detection of tuberculosis and of horses, mules, and asses for glanders, and the issuance of interstate certificates for the movement of such as are found to be free from disease, in compliance with the laws of the State to which destined. Animals found to be diseased with tuberculosis or glanders are required to be disposed of in accordance with the laws of the State in which the disease is discovered	20,407.87
Investigations of alleged violations of livestock quarantine regulations: Securing, for use of the Department of Justice, specific information relative to the interstate movement of live stock from areas under quarantine for contagious disease in violation of department regulations	$91.26
Eradication of tuberculosis among dairy herds: Suppression and prevention of the spread of bovine tuberculosis interstate with a view to insure milk supplies from cattle free from this disease; includes cooperation with the Office of Indian Affairs, Department of the Interior, the Health Department of the District of Columbia, and the Virginia Dairy and Food Division	22,620.05
Eradication of dourine: Inspection of all horses in areas where the disease is known or believed to exist and removal of diseased stallions in such areas from the open range; blood tests of suspected animals in the bureau laboratory in Washington; slaughter of all mares reacting to the test and slaughter or castration of all reacting stallions. Indemnification of the owners of horses thus destroyed is made jointly by the Federal Government and the State	72,764.60
Manufacture and distribution of tuberculin: Tuberculin is manufactured in the laboratories at Washington and furnished free of cost to Federal, State, county, and municipal officials, with the understanding that reports of the tests will be made to the bureau and provided that the tuberculin so furnished is to be used only for official work	6,218.30
Manufacture and distribution of mallein: The object of this work is to furnish a supply of mallein for the testing of horses for glanders, the procedure followed being the same as that described under the preceding project	2,366.00
Manufacture and distribution of blackleg vaccine: Blackleg vaccine is manufactured in the laboratories at Washington and distributed free upon request to owners of cattle, with the view of preventing this disease	9,357.76
Manufacture and distribution of other vaccines: This includes the preparation and distribution of vaccines or serums for use in outbreaks of hemorrhagic septicemia in ruminants, takosis in goats, infectious abortion in cattle, and anthrax in various species of domesticated animals	385.00

Investigation and chemical testing of dips and disinfectants: Chemical and bacteriological studies of dips and of methods of compounding dips and disinfectants, and studies of methods for testing these substances in the field	$4,439.90	
Correspondence concerning animal diseases: Assistance, through correspondence, to live-stock owners upon problems relating to animal diseases, especially in those sections of the United States where qualified veterinarians are not available.	2,320.50	
Eradication of foot-and-mouth disease: Eradication and control of this disease in 22 States and the District of Columbia through the adoption of quarantine measures, the slaughter of affected animals, and the cleaning and disinfection of premises exposed to the infection. During the fiscal year 1915 approximately 700 bureau employees were assigned to this duty. One-half of the cost of indemnifying owners of the animals destroyed was paid by the department and one-half by the States concerned	3,934,839.74	
Total	4,395,092.43	

ERADICATION OF CATTLE TICKS.

Total expenditures as above	$325,663.17	
Outstanding liabilities, Aug. 31 (estimated)	1,924.27	
Total allotment	327,587.44	
Distributed among the several subactivities as follows:		
Supervision: General direction of the projects relating to the eradication of cattle ticks and the performance of duties common to the work as a whole	2,964.18	
Eradication of ticks: Extermination of ticks which spread infection of splenetic fever in cattle, through the systematic disinfection of tick-infested animals by means of arsenical and other dips	320,517.24	
Preparation and standardization of dipping fluids: The object of this work is to insure the employment of properly compounded dips in the work of eradicating cattle ticks and to investigate means for preparing and maintaining baths of definite efficiency	3,439.63	
Live-stock demonstrations in tick-free areas: Cooperation with county agents and with State officials in demonstrating methods of inspecting and testing live stock, to the end that live-stock diseases may be excluded from tick-free areas [1]	666.39	
Total	327,587.44	

DAIRY INVESTIGATIONS.

Total expenditures as above	$255,190.03	
Outstanding liabilities, Aug. 31 (estimated)	25,416.72	
Unexpended balance (estimated)	1,000.00	
Total allotment	281,606.75	
Distributed among the several subactivities as follows:		
Supervision: General direction of dairy investigations and routine clerical work	34,987.13	
Dairy farming: Includes (1) southern dairying, the object of which is to introduce, develop, and improve the business of dairying in the Southern States and to work dairying into the system of cotton farming; (2) community development work, or the demonstration of the practicability of the small community raising its economic status through the employment of a field instructor skilled in dairying; (3) the organization of cow-testing and bull associations, with a view to increase economically the average milk and butter-fat production of the dairy cows in the United States and to improving the quality of the dairy herds; (4) the breeding of Holstein cattle suitable for conditions in the semiarid West; (5) cooperation with the extension departments of various State agricultural colleges for conducting dairy extension work by means of county agents; (6) dairy extension work in Nebraska, including demonstrations in herd-record work, assistance in the building of silos, dairy barns, dairy houses, etc.; and (7) the operation of a dairy demonstration farm at Denison, Tex., for the purpose of demonstrating the practicability of dairying under conditions of drought and tick infestation		$50,697.95
Dairy manufacturing investigations: Includes (1) creamery management, the object being to improve the quality of milk and cream delivered to creameries, the quality of the product, and the general efficiency of creameries; (2) cheese-factory management, having in view the improvement of the quality of milk delivered to cheese factories, the quality of the cheese produced, and the methods of manufacture; (3) inspection of renovated butter factories, in accordance with the act of May 9, 1902; (4) farm butter manufacture, having for its object the giving of advice and encouragement to southern farmers in the production of a better quality of butter; and (5) butter inspection for the Navy Department, to assist that department in obtaining first-class canned creamery butter and incidentally to study the manufacture of butter for storage		38,625.03
Dairy research laboratories: This work covers (1) experiments to determine the factors which control the flavor of butter, including studies of the methods of handling cream, its pasteurization and ripening, changes in butter in storage, and methods of renovating butter; (2) experiments to determine the causes of spoilage of condensed milk and to develop logical methods of manufacture; (3) a study of the bacteria occurring in milk; (4) study of the mechanism of milk secretion and of the factors which control or influence this function, with a view to the more logical breeding and feeding of dairy cows; (5) study of methods for the utilization of by-products of creameries and cheese factories by converting them into products which will be useful in the arts or available as food for man or animals, such as milk sugar, casein, etc.; (6) study of methods for the proper disposal of the		

[1] See also statement of live-stock demonstration work in tick-free areas under projects "Dairy investigations" and "Animal husbandry investigations."

wastes of dairy farms, creameries, and cheese factories; (7) studies of the factors producing the peculiar chemical and physical changes which give Swiss cheese its desirable character and the application of this knowledge to practice, of the manufacture and ripening of certain European varieties of soft cheese, and of the manufacture of Cheddar cheese; (8) investigation of the changes which take place in the material put into the silo; and (9) chemical studies of the feeding stuffs used in feeding experiments conducted at the dairy farm at Beltsville, Md. $67,729.51

Market milk investigations: Studies in the sanitation of milk supplies and the cost of handling milk and of milk production; also investigations of the increased cost of milk production attributable to modern, sanitary methods and of the variation in cost of milk production in different sections 10,740.90

Live-stock demonstrations in tick-free areas: This includes demonstrations to farmers of the best methods for improving and developing the dairy industry in areas in the Southern States freed from cattle ticks 9,873.92

Dairy experiment farm: Maintenance of a farm near Beltsville, Md., for conducting experimental work in the breeding and feeding of dairy cattle and in milk production; study of the housing of dairy cattle, including a comparison of the efficiency of open and closed barns for dairy cows; calf-feeding experiments; study of the efficiency of wood as compared with concrete silos; production of feed for the dairy herd, including cost of farm machinery, drainage, and other improvements of lands and roads; construction of buildings required for conducting feeding, breeding, and other dairy-farming investigations 43,551.84

Western dairy investigations: Development and improvement of the business of dairying in the Western States, including instructions to dairymen in the feeding and care of dairy cows and in building silos, barns, and milk houses, and encouragement in the keeping of herd records and in the promotion of cow-testing associations; includes also investigations of city milk supplies in the Western States and the education of dairymen and milk handlers in the production of clean milk, and a study of creamery and cheese-factory conditions with the view of introducting better methods for their management 24,400.47

Total 280,606.75

ANIMAL HUSBANDRY INVESTIGATIONS.

Total expenditures as above	$212,392.92
Outstanding liabilities, Aug. 31 (estimated).	7,317.89
Unexpended balance (estimated)	1,000.00
Total allotment	220,710.81

Distributed among the several subactivities as follows:

Supervision: General direction of animal husbandry investigations and the performance of duties common to the work as a whole 15,026.21

Animal breeding investigations: Study of the principles of animal breeding by the use of small animals, most attention being paid to inbreeding $1,876.40

Beef and pork production investigations: Covers (1) studies in swine feeding, particularly the effect of feed on the growth and quality of the pork, the effect of feed on the physiological condition of hogs, the toxic effect of cottonseed-meal feeding, and the methods of curing pork on the farm; (2) study of the loss in weight of live stock in transit and of methods of improving conditions surrounding live-stock shipments; (3) study of economical methods and the cost of raising cattle, sheep, and swine and of methods of raising, fattening, and wintering beef cattle economically in the Appalachian region; (4) investigations having in view the establishment of the most economical practices in the raising and fattening of beef cattle in the Gulf States, and experimental studies of the best methods of wintering and finishing beef cattle in Mississippi for market; (5) experimental study of problems entailed in maintaining and feeding a herd of breeding cows under conditions existing in North Carolina and of methods of wintering and finishing beef cattle for the open market; (6) development of the practice of finishing range cattle for market in the sections where this can be done profitably, to assist farmers in using modern methods and to demonstrate the use of roughage; (7) organization of pig clubs to encourage the raising of hogs by boys and girls on the farms, particularly in the South, thus increasing the hog industry in the United States and stimulating the interest of the young people in farm affairs; and (8) encouragement of farmers raising beef cattle to build more silos, in order to increase the number of animals kept without necessarily increasing the acreage required to produce the feed for such stock, by furnishing plans for silos and giving expert assistance in their actual construction 34,856.94

Certification of pedigrees: Determination of the purity of breeds and the identity of horses, dogs, and cats imported for breeding purposes under the provisions of paragraph 397 of the tariff act of Oct. 3, 1913 ..... 4,295.10

Animal husbandry experiment farm: Maintenance of a farm at Bellville, Md., for the purpose of affording the bureau proper facilities for conducting investigations in the feeding and breeding of farm animals, including poultry 34,759.23

Horse and mule investigations: Consists of (1) production of a breed of horses from American material suitable for carriage and general purposes; (2) regeneration of the Morgan horse, keeping in view the market requirements and those of the New England farmers; (3) establishment of a breed of gray American draft horses by uniting the best qualities of Clydesdale and English Shire horses; (4) study of the economy of feeding and raising horses in the tidewater section of Maryland and comparison of the relative economy of feeding and raising horses and mules; (5) improvement in the quality of horses bred on Indian reserva-

tions by proper selection and the use of pure-bred stallions; (6) the breeding of horses suitable for military purposes in localities where such horses are the most profitable type for the farmer to produce, and the encouragement, in general, of better horse-breeding methods among farmers $57,428.35

Poultry investigations: Comprises (1) poultry-feeding investigations, including a study of the cost of buying, fattening, and dressing chickens under commercial conditions and a comparison of the efficiency of various fattening rations; (2) poultry-breeding investigations, including the production of first-class individuals of leading breeds of farm poultry to be used in poultry investigations at the Beltsville, Md., farm; determination of the possibility of producing high-class specimens of Barred Plymouth Rocks by single mating; establishment of a breed with the long type of body similar to the Dorking, having four toes, yellow skin, and which will lay a white-shelled egg; study of the influence the male and female have in transmitting their egg-laying qualities to their offspring, and the development of methods that can be used to increase the laying qualities and the size of the eggs in the average flock; (3) study of the problems underlying the incubation of eggs, both by natural and artificial means, including the incubation of hens' eggs by the use of the respiration calorimeter, to determine particularly the cause of the poor efficiency of the modern incubator, and to measure the gaseous exchange and heat elimination of eggs in various circumstances affecting their nutritive value, keeping quality, fertility, and other characteristics; (4) study of methods of incubation, breeding, feeding, housing, and management of turkeys and guinea fowls, and the development of methods for the control and prevention of excessive mortality among turkeys; (5) study of conditions surrounding the production of the market egg from the farm to the country store, with a view to improve the egg output of the United States and prevent loss now occurring on account of careless methods of handling; (6) study of the problems underlying the breeding, incubation, and feeding of ostriches in the United States, the diseases and climatic conditions affecting them, and the marketing of feathers, and assistance to farmers in the preparation of their product for market; and (7) organization of poultry clubs among farm boys and girls for the purpose of demonstrating the practicability of poultry production, the value of better poultry management, and the methods of producing standard-bred poultry, and to bring about the standardization of poultry and poultry products 26,989.62

Sheep and goat investigations: (1) The production, by breeding, of a type of sheep for range conditions which will shear a profitable amount of wool of long staple, have good mutton conformation, and stand flocking in large numbers; includes the distribution of high-class rams among the ranches of the West and the instruction of sheepman in the proper methods of handling sheep on the range, also a study of the value of the Corriedale breed as a combination wool and mutton sheep for the range sections of the United States; (2) study of the classification of wools on the leading markets and the requirements of each class, determination of the possibility of adopting a uniform classification of wool, and dissemination of information to growers as to the best methods of handling wool to bring its full value on the market; (3) maintenance of a flock of Southdown ewes at the Morgan Horse Farm, Middlebury, Vt., for the purpose of producing rams for sale to farmers, and experiments with the flock in testing the best methods of using forage crops for fattening lambs and maintaining ewes in summer, with a view to encourage New England farmers to return to the sheep industry; (4) determination of the possible value for fur of the Karakule sheep and its crosses under American conditions; (5) experiments to show the possibilities and best methods of raising lambs for market under a system of grazing upon sown forage crops that will insure health and economy of production in intensive farming; and (6) the development of profitable milk-producing goats from foundation stock of native American blood, including a study of the feeding of milch goats and of the value of goat's milk $27,806.43

Meat investigations: An investigation to determine the cost of raising and feeding beef cattle in the Middle West; collection of data showing cost of maintaining breeding herd, cost of summer and winter maintenance for both cows and bulls, cost of raising calves under four different systems of management, cost of producing baby beef, and total average cost of raising calves up to yearling, 2-year-old, and 3-year-old stages. Data and information obtained in this investigation used by the committee appointed by the Secretary of Agriculture to investigate the meat situation in the United States 2,171.31

Live-stock demonstrations in tick-free areas: Demonstrations to farmers of the best methods for improving and developing the live-stock industry in areas in the Southern States freed from cattle ticks .. 14,501.22

Total 219,710.81

CONTROL OF THE MANUFACTURE, IMPORTATION, AND SHIPMENT OF VIRUSES, SERUMS, ETC.

Total expenditures as above	$66,449.78
Outstanding liabilities, Aug. 31 (estimated)	482.82
Unexpended balance (estimated)	1,600.00
Total allotment	68,532.60

This comprises the supervision and inspection of establishments which manufacture for interstate business or which import viruses, serums, toxins, and analogous products intended for use in the treatment of diseases of domestic animals; supervision of the methods of manufacture, examination of samples of such products, collection of evidence of violation of the law relating to their control, and the issuance of licenses and permits in connection therewith 66,932.60

Inspection and Quarantine of Imported Animals.

Total expenditures as above	$82,087.78
Outstanding liabilities, Aug. 31 (estimated)	137.84
Total allotment	82,225.62

Distributed among the several subactivities as follows:

Supervision: General direction of the work of inspection and quarantine of imported animals and the performance of duties common to the whole work	6,711.59
Inspection of animals for importation from Mexico: Inspection of animals at ports of entry in States bordering Mexico for the purpose of prohibiting the importation of diseased animals	21,637.74
Inspection of animals for importation from Canada: Inspection of animals at ports of entry in States along the Canadian border in order to prohibit the importation of diseased animals	34,153.52
Inspection of animals for importation from other than North American countries: Inspection of animals at various ports of entry in Atlantic and Pacific Coast States, with a view to the exclusion of diseased animals	2,272.71
Inspection and testing of animals in Great Britain intended for export to the United States: The object of this work is to prevent the shipment from Great Britain to the United States of diseased animals and thus save importers the expense of bringing over animals which would have to be rejected and returned	3,545.24
Quarantine of animals at ports of entry: Maintenance of animal quarantine stations on the Atlantic and Pacific seaboards and on the Canadian and Mexican borders for the detention and observation of imported animals, with a view to the detection of any communicable disease and the prevention of its spread into the United States	10,469.15
Inspection of imported forage and animal by-products: Supervision of the importation and inspection of hay, straw, forage, feed, and hides, hair, and other animal by-products, with a view to prohibit the introduction of animal diseases through such agencies	1,242.00
Investigation of methods of disinfecting hides: Determination of the best methods for the disinfection of hides, in order to prevent the introduction of infectious material; includes bacteriological studies of the effect of disinfectants on various disease-producing microorganisms, particularly anthrax, and a study of the effect of disinfectants on such organisms when placed on hides	1,800.00
Special examination and testing of imported animals: Examination of blood serums of imported animals for the detection of infectious and contagious diseases, and examination of imported sheep dogs for the presence of parasites	393.67
Total	82,225.62

Export Live-Stock Inspection.

Total expenditures as above	$7,102.74

Distributed among the several subactivities as follows:

Supervision: General direction of export live-stock inspection and the performance of duties common to the work as a whole	1,659.95
Inspection and testing of animals for export to foreign countries: This inspection is carried on in order to insure freedom of export animals from disease, in accordance with the requirement of the countries to which consigned	2,664.35
Inspection of vessels carrying export animals: Vessels are inspected to see that provision is made for the safe transportation and humane treatment of export live stock	2,778.44
Total	7,102.74

Investigations of Animal Diseases.

Total expenditures as above	$116,725.59
Outstanding liabilities, Aug. 31 (estimated)	3,103.60
Unexpended balance (estimated)	1,000.00
Total allotment	120,829.19

Distributed among the several subactivities as follows:

Supervision: General direction of animal-disease investigations and the performance of duties common to the work as a whole	6,046.23
Forage poisoning or cerebrospinal meningitis of horses: Studies having in view the determination of the causative agent of this disease and the devising of measures for its prevention	1,553.64
Infection abortion: Investigations in the treatment, control, and possible eradication of this disease among animals	7,540.25
Swamp fever: Determination of the nature and cause of this disease of horses and development of methods for its prevention, particular attention being given to the possible insect transmission of this disease	2,301.81
Diagnosis of dourine: Determination of the presence or absence of dourine in suspected animals by means of serum diagnosis	9,376.08
Glanders: Investigations to determine the various conditions which are favorable to the propagation of this disease among horses, to establish the extent of the spread of the disease through latent cases, and to apply a method of vaccination which will protect against natural and artificial exposures to glanders	1,184.29
Poultry diseases: Study of white diarrhea of fowls, fowl cholera, blackhead of turkeys, canker of pigeons, and various other diseases of poultry, with a view to the development of information that may be useful in the treatment, eradication, and control of such diseases	1,904.67

Hog cholera: Investigation of the cause of the disease and of modes of dissemination, and study of the composition and concentration of hog-cholera serum and of methods of producing serum more cheaply..... $1,157.50

Roundworms of sheep: Study of the life histories of roundworms of sheep and development of methods for their control and eradication..... 14,906.48

Parasitic protozoa: Investigation of the life histories of various forms of protozoa parasitic on animals and of methods for their eradication and control..... 1,830.00

Use of dips: Investigation of the effective use of dips in the eradication and control of external parasites; development of a satisfactory arsenical dip for use in tick eradication; and determination of satisfactory methods for the treatment of cattle mange and sheep scab..... 3,722.23

Tuberculosis: Investigations in the control and eradication of tuberculosis among cattle, hogs, and other domestic animals. Previous investigations have resulted in increased knowledge as to the mode of infection with tubercle bacilli, the manner in which the disease is disseminated, and the measures necessary to prevent its transmission..... 9,545.87

Physiological experiments: Consists of miscellaneous analyses, examinations, etc., of the stomach contents of animals supposed to have died of some poison, or alleged poisonous plants, etc..... 2,369.12

Pathology of milk: Investigation of methods for the detection of pathological conditions in market milk..... 1,380.00

Miscellaneous pathological investigations: Study of miscellaneous diseases of domestic animals, including the foot-and-mouth disease, rabies, actinomycosis of swine, anthrax of horses, takosis of goats, etc., with a view to the development of methods for their treatment, eradication, and control..... $4,775.46

Miscellaneous zoological investigations: Studies of miscellaneous animal parasites and development of methods for their control and eradication; includes gullet worms of sheep and cattle, various species of tapeworms, etc.; identification of specimens of parasites for members of the field force of the bureau, stock owners, veterinarians, physicians, and others..... 7,094.67

Miscellaneous disease research: Miscellaneous investigations of animal diseases conducted partly at the experiment station at Bethesda, Md., and partly at the bureau laboratory at Washington, D. C., together with independent minor researches..... 23,491.28

Breeding and feeding small experimental animals for disease research: The object of this project is to have available sufficient small experimental animals of definite known history for use in connection with various lines of research work in the bureau..... 9,173.30

Animal-disease experiment station: Maintenance of an experiment station at Bethesda, Md., for the purpose of providing necessary facilities for the practical field investigation of animal diseases. 10,476.31

Total..... 119,829.19

BUREAU OF PLANT INDUSTRY.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Administration	$81,343.70	$24,483.23	.....	$105,826.93	$270.75	$164.64	$1,574.04	$1,335.45
2	Laboratory of plant pathology	8,295.00	24,237.83	$2,296.50	34,829.33	2,039.34	1,359.48	530.40	259.28
3	Fruit-disease investigations	4,685.00	32,910.34	3,659.70	41,255.04	5,838.35	2,074.49	415.17	735.43
4	Investigations in forest pathology.	2,901.33	24,287.91	20,389.92	47,579.16	11,623.53	872.02	2,120.80	858.78
5	Cotton and truck disease investigations.	9,090.22	22,409.93	7,479.72	38,979.87	8,336.38	1,261.83	282.31	938.02
6	Crop physiology and breeding investigations.	9,669.18	14,551.09	8,361.59	32,581.86	3,281.05	257.43	565.71	2,258.45
7	Soil bacteriology and plant-nutrition investigations.	7,118.33	22,163.17	319.75	29,601.25	1,352.80	4,986.04	919.62	810.21
8	Crop acclimatization and cotton-breeding investigations.	3,834.01	18,996.17	6,358.13	29,188.31	6,869.62	1,143.77	451.70	711.90
9	Drug-plant, poisonous-plant, physiological, and fermentation investigations.	10,195.49	33,714.69	5,910.21	49,820.39	3,355.80	1,937.83	412.89	1,862.60
10	Agricultural technology and fiber-plant investigations.	4,761.61	6,151.67	.....	10,913.28	884.42	996.21	46.83	558.92
11	Cotton standardization	6,475.50	31,233.18	32.51	37,741.19	1,429.80	1,421.53	591.76	502.64
12	Grain standardization	9,251.65	17,749.77	36,819.58	63,821.00	7,101.81	2,156.77	1,045.70	2,035.30
13	Biophysical investigations	3,758.33	11,690.41	2,976.67	18,425.41	2,354.92	1,963.64	121.04	802.19
14	Seed-testing laboratories	8,550.33	16,391.18	4,910.76	29,852.27	2,553.23	49.26	934.97	211.84
15	Cereal investigations	16,691.33	51,609.99	38,383.22	106,684.54	24,077.85	685.60	1,440.67	1,947.01
16	Tobacco investigations	4,072.78	5,350.00	14,102.71	23,525.49	2,159.65	157.71	30.77	69.83
17	Paper-plant investigations	4,102.94	4,630.00	30.67	8,763.61	2,435.79	306.08	46.85	615.16
18	Alkali and drought resistant plant investigations	2,419.67	9,906.11	4,910.69	17,236.47	4,687.06	348.63	110.80	296.76
19	Sugar-beet investigations	1,715.00	14,333.39	10,267.85	26,316.24	8,363.28	1,361.98	1,063.20	777.75
20	Investigations in economic and systematic botany	10,003.90	18,561.08	.....	28,564.98	1,112.13	730.07	293.99	101.11
21	Farm management	39,365.77	124,331.04	41,622.06	205,318.87	50,509.39	.....	4,118.77	7,805.80
22	Farmers' cooperative demonstrations in the North and West	7,833.00	39,004.76	282,888.65	329,726.41	29,420.87	.....	2,521.78	3,261.07

ENFORCEMENT OF THE 28-HOUR LAW.

Total expenditures as above	$10,208.22
Outstanding liabilities, Aug. 31 (estimated)	172.40
Total allotment	10,380.62

The purpose of this project is the enforcement of the law requiring that animals being shipped interstate are unloaded for feeding, resting, and watering at least once in every 28 hours, and that the animals are handled in a humane manner at the stockyards where such unloading is performed 10,380.62

INVESTIGATION AND ERADICATION OF HOG CHOLERA.

Total expenditures as above	$218,975.31
Outstanding liabilities, Aug. 31 (estimated)	1,101.56
Unexpended balance (estimated)	184,376.78
Total allotment	404,453.65

Distributed among the several subactivities as follows:

Supervision: General direction of hog-cholera investigations and eradication and the performance of duties common to the work as a whole	3,487.63
County hog-cholera investigations: Determination of the most effective methods of controlling hog cholera through cooperation with States, whereby one or more inspectors are placed in selected areas (counties) for the purpose of studying methods of dissemination of the disease and various means of combating it	130,412.43
Preparation of hog-cholera serum: Production of serum to supply the requirements of the experimental work in connection with the county hog-cholera investigations	71,902.11
Demonstrational and educational hog-cholera work: Demonstrations to farmers of the means whereby they may, by their own efforts, reduce losses from hog cholera	$14,274.70
Total	220,076.87

LIVE-STOCK PRODUCTION IN CANE-SUGAR AND COTTON DISTRICTS.

Total expenditures as above	$57,198.90
Outstanding liabilities, Aug. 31 (estimated)	2,301.10
Unexpended balance (estimated)	500.00
Total allotment	60,000.00

Distributed among the several subactivities as follows:

Experimental work: The object of this work is to determine the commercial possibilities of producing live stock in the cane-sugar and cotton districts of the South, and includes studies of the best and most economical methods of crop production and of feeding and handling live stock under the conditions obtaining in this region	47,168.67
Extension work: Dissemination of information relative to the best methods to be used in producing live stock in the cane-sugar and cotton districts of the South. The work is at present confined principally to the State of Louisiana and includes demonstrations in the production of beef cattle, hogs, horses, mules and poultry, in dairying, and in forage-crop production	12,331.33
Total	59,500.00

BUREAU OF PLANT INDUSTRY.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$1,612.45	$184.50	$301.42	$13.56	.....	.....	.....	$288.77	$1,859.88	$113,432.39	1
509.19	.....	20.95	135.90	.....	.....	.....	1,066.54	2,627.12	43,377.53	2
1,319.48	903.67	83.17	279.76	$6.10	.....	$70.45	49.56	2,723.49	55,754.16	3
1,481.79	45.00	192.77	952.00	20.00	.....	44.50	90.30	2,441.37	68,322.02	4
550.02	1,001.77	38.61	402.89	.....	.....	.....	587.71	872.59	53,252.00	5
1,339.85	1,207.00	179.55	180.04	47.50	$219.83	410.60	2,163.52	5,440.44	50,132.83	6
909.64	.....	40.24	266.10	.....	.....	29.40	112.42	1,218.81	40,246.53	7
1,238.03	312.00	58.75	237.13	.....	.....	36.54	54.60	546.74	40,849.09	8
834.09	301.00	28.72	464.46	6.00	139.24	167.15	129.75	3,663.80	63,123.72	9
389.30	63.75	21.47	76.09	.....	.....	.....	44.08	444.74	14,439.09	10
2,008.82	.....	67.16	436.47	.....	.....	2.25	57.48	39,077.88	83,336.98	11
1,105.21	4,970.00	447.27	559.10	77.87	.....	117.04	132.93	1,723.02	85,293.02	12
419.94	720.00	17.43	389.70	81.54	.....	25.13	121.34	2,140.97	27,583.25	13
390.99	.....	246.90	216.41	.....	.....	.....	54.06	1,308.66	35,818.59	14
1,183.82	.....	193.50	347.20	.....	935.78	177.91	57.46	5,230.77	142,962.11	15
225.55	215.00	4.33	43.46	.....	.....	57.00	42.00	1,869.55	28,400.34	16
191.75	.....	8.33	260.77	.....	.....	.....	36.87	942.64	13,607.85	17
305.66	.....	20.61	228.56	.....	.....	.....	23.32	480.32	23,738.19	18
304.05	298.98	166.21	529.76	1.80	.....	12.50	32.43	672.92	39,901.10	19
620.39	175.00	19.58	20.83	.....	.....	.....	6.17	1,418.92	33,063.17	20
4,286.59	589.92	276.83	417.44	.....	.....	.....	260.89	2,753.15	276,337.65	21
7,798.11	150.00	173.53	102.05	.....	.....	92.34	228.54	4,369.08	377,843.78	22

BUREAU OF PLANT INDUSTRY—Continued.

Classification of expenditures for the fiscal year ended June 30, 1915—Continued.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
23	Farmers' cooperative demonstrations in the South	$28,011.85	$32,955.27	$508,956.24	$569,923.36	$98,140.61		$2,040.90	$1,695.91
24	Dry-land agriculture investigations	5,013.33	18,911.42	64,310.51	88,235.26	11,442.99	$1,292.51	1,472.58	14,676.05
25	Western irrigation agriculture investigations	14,092.50	7,087.34	33,391.44	54,571.28	6,278.54	489.43	985.75	3,744.26
26	Pomological investigations	19,919.00	48,907.61	12,094.91	80,921.52	19,902.62	988.89	643.43	1,586.06
27	Horticultural investigations	10,065.71	15,782.67	5,413.75	31,262.13	9,565.95	2,320.76	1,164.63	1,321.92
28	Arlington farm	19,140.50	3,880.00		23,020.50	11.82		150.80	1,382.30
29	Experimental gardens and grounds	41,585.74	3,852.33		45,438.07			177.65	1,326.05
30	Foreign seed and plant introduction	33,108.53	22,444.16	19,170.91	74,723.60	8,013.17		1,175.83	1,464.01
31	Forage-crop investigations	5,804.44	27,551.00	16,597.13	49,952.57	8,039.81		817.75	2,086.04
32	Seed distribution	30,799.26	17,064.26	4,114.82	51,978.34	2,879.28		579.06	1,757.66
33	Demonstrations on reclamation projects		4,031.34	10,121.00	14,152.34	5,503.47	397.79	845.48	1,772.25
34	Citrus-canker investigations			29,856.59	29,856.59	2,291.34			
	Total	463,674.93	771,164.34	1,195,748.19	2,430,587.46	352,127.42	29,724.39	29,693.63	61,568.01

PROJECT STATEMENTS.

Administration.

Total expenditures as above	$113,432.39
Outstanding liabilities, Aug. 31 (estimated)	284.65
Unexpended balance (estimated)	116.66
Total allotment	113,833.70

Administration of the business affairs of the bureau and general direction of all its investigational activities; includes the offices of chief and assistant chief of bureau, the office of the chief clerk, editorial office, office of records, library, central file section, and supply section 113,717.04

Laboratory of Plant Pathology.

Total expenditures as above	$43,377.53
Outstanding liabilities, Aug. 31 (estimated)	1,695.30
Unexpended balance (estimated)	222.17
Total allotment	45,295.00

Distributed among the several subactivities as follows:

Central laboratory of plant pathology: Study and identification of fungi and bacteria parasitic on plants, with a view to the discovery of remedies and methods of preventing diseases caused by them. Diseased material is received from all parts of the United States and abroad for examination and advice given as to methods of treatment 31,120.27

Pathological collections and inspection work: Maintenance of a herbarium of pathogenic specimens, also mycological and host indexes of new species and list of plants which they attack, and a mycological exchange with American and foreign scientists; the identification of pathological material received through correspondence or otherwise; and the carrying on of a rigid inspection of domestic and foreign plants to prevent diseases and guard against the importation of diseased material 11,468.65

Ginseng diseases: A study of the causes and methods of control of the various diseases affecting ginseng $2,483.91

Total	45,072.83

Fruit-Disease Investigations.

Total expenditures as above	$55,754.16
Outstanding liabilities, Aug. 31 (estimated)	1,485.89
Unexpended balance (estimated)	119.95
Total allotment	57,360.00

Distributed among the several subactivities as follows:

Supervision: General direction of field investigations and demonstrations, miscellaneous laboratory experiments, and clerical routine 7,936.05

General orchard diseases: Laboratory studies and field tests to develop methods of eradication or control of pear blight, little peach, peach yellows, crown gall, apple canker and black heart, root rot, and other diseases of orchard fruits; and a special study of spraying materials and apparatus 11,800.00

Citrus and subtropical fruit diseases: Investigation of fungous and other diseases of the orange, lemon, mango, pineapple, avocado, pomegranate, etc., including attention to the fungous decays of these fruits in storage, transit, and on the market 6,016.00

Grape and small fruit diseases: Research work on diseases of the grape and cranberry and other small fruits, including a study of the life history of the anthracnoses and other fungi, the various pathological factors which produce diseases, and the most effective means of combating them 11,440.00

Spraying demonstrations and experiments: A special study of the effects of different spraying remedies, such as the russeting of apples by Bordeaux mixture, peach-foliage injury by spraying with fungicides, etc., and demonstrations of spraying methods for the benefit of fruit growers 5,400.00

BUREAU OF PLANT INDUSTRY—Continued.

Classification of expenditures for the fiscal year ended June 30, 1915—Continued.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$12,166.17	$536.74	$281.37	$217.66	.....	.....	.....	$126.39	$2,929.92	$688,059.03	23
1,116.42	207.20	283.68	1,655.40	$401.21	$1,170.33	$765.07	26,328.54	8,252.31	157,299.55	24
967.72	.....	285.00	337.14	102.28	764.48	703.39	197.64	10,563.80	79,990.71	25
1,326.77	938.00	221.82	743.77	.....	7.50	266.90	127.19	7,900.12	115,574.59	26
1,690.00	417.50	191.18	523.17	305.10	153.00	195.55	1,465.88	10,354.16	60,930.93	27
130.13	.....	91.26	40.43	225.36	3,460.20	1,129.00	1,037.41	2,619.16	33,298.37	28
169.45	.....	6.54	58.54	.....	.....	2.70	1,156.37	4,631.01	52,966.38	29
2,887.82	222.69	372.50	1,410.05	219.17	494.93	1,547.67	2,944.33	6,642.62	102,118.39	30
514.46	1,071.51	70.50	156.81	.....	.....	.....	268.00	1,924.97	64,902.42	31
3,411.54	220.00	218.04	11,273.91	871.07	195.24	659.06	225.89	287,173.86	361,442.95	32
336.33	223.80	67.01	344.38	.....	.....	142.80	54.63	479.62	24,319.90	33
.....	.....	4.30	.....	.....	.....	.....	.....	15.00	32,167.23	34
53,741.53	14,975.03	4,700.53	23,320.94	2,365.00	7,540.53	6,654.95	[1] 39,573.01	427,313.41	3,483,885.84	

[1] Structures and nonstructural improvements to land, $35,037.78; mechanics' supplies, $2,788.63; cleaning and toilet supplies, $1,746.60.

Fruit rots and spots: A study of the causes and methods of prevention of these diseases while the fruit is in the orchard, in transit, in storage, or on the market $8,058.00

Physiological fruit diseases: Study of diseases resulting from bad soil, malnutrition, frost, and other environmental and physiological conditions 6,590.00

Total 57,240.05

Investigations in Forest Pathology.

Total expenditures as above	$68,322.02
Outstanding liabilities, Aug. 31 (estimated)	3,681.46
Unexpended balance (estimated)	407.85
Total allotment	72,411.33

Distributed among the several subactivities as follows:

Supervision: Planning and supervising field investigations, miscellaneous laboratory experiments in connection with the pathological studies, and general office details .. 10,722.67

Diseases of ornamental and shade trees and shrubs: Experiments on the nature and control of these diseases, in cooperation with States, cities, societies, institutions, and private agencies 2,932.91

Pathological problems in wood preservation: The devising of better methods of timber preservation by the study of all pathological and mycological aspects of the rotting and staining of structural timber 4,702.62

Forest-tree diseases: Field and laboratory studies of the causes and progress of diseases affecting forest trees and shrubs, especially forest nursery stock, including the control of such diseases as interfere with commercial production of forest-tree seedlings and with successful reforestation by planting .. 29,019.97

Imported and epidemic tree diseases: Study of the control of miscellaneous tree diseases, including the white-pine blister rust, the chestnut bark disease, etc., and dissemination of information, by demonstrations, publications, and correspondence, relative to the work $24,625.31

Total 72,003.48

Cotton and Truck Disease Investigations.

Total expenditures as above	$53,252.00
Outstanding liabilities, Aug. 31 (estimated)	1,473.95
Unexpended balance (estimated)	364.27
Total allotment	55,090.22

Distributed among the several subactivities as follows:

Supervision: General direction of field investigations, miscellaneous laboratory experiments, and clerical routine 12,973.48

Cotton diseases: General study of cotton diseases and their control and the breeding of wilt-resistant varieties of cotton 6,426.39

Truck-crop diseases: Investigation of the causes and control of miscellaneous diseases of truck crops and the breeding of disease-resistant varieties 32,851.02

Forage-crop diseases: Miscellaneous investigations of forage-crop diseases, including diseases of cowpeas and clover and bacterial and fungous diseases of alfalfa 2,475.06

Total 54,725.95

Crop Physiology and Breeding Investigations.

Total expenditures as above	$50,132.83
Outstanding liabilities, Aug. 31 (estimated)	3,792.10
Unexpended balance (estimated)	284.25
Total allotment	54,209.18

Distributed among the several subactivities as follows:	
Supervision: General direction of field investigations, miscellaneous laboratory experiments, and clerical routine	$4,840.76
Indian cooperation: Breeding and testing of crops which may be grown profitably by the Indians themselves or for which Indian labor may be utilized	10,063.53
Date culture: Investigation of the life history and physiological requirements of varieties of dates in order to establish date culture on a commercial scale in the United States.	13,898.53
Fig culture: Caprification of the fig and breeding new varieties of figs and caprifigs adapted to American conditions	4,875.00
Citrus-fruit breeding: Development by hybridization and selection of new and hardy types of citrus fruits with a view to extend the area of their growth in the United States	15,663.55
Dry-land arboriculture: Consists of experimental testing of deep-rooted and drought-resistant trees and shrubs for dry-land regions	2,518.56
Miscellaneous laboratory and field work: Includes investigations of pistache and truffle culture, electroculture, and the application of stimulation treatments to seeds and plants	2,065.00
Total	53,924.93

SOIL BACTERIOLOGY AND PLANT-NUTRITION INVESTIGATIONS.

Total expenditures as above	$40,246.53
Outstanding liabilities, Aug. 31 (estimated)	782.33
Unexpended balance (estimated)	1,089.47
Total allotment	42,118.33

Distributed among the several subactivities as follows:	
Supervision: General direction of the investigational work, office routine, and miscellaneous laboratory experiments	5,932.63
Distribution and study of legume bacteria: Study of the life history of the nodule-forming bacteria; experiments in the breeding and selection of more virile types of nodule-forming bacteria, and their distribution for the inoculation of leguminous crops	11,415.79
Soil bacteriology: A comprehensive study of the relation of soil bacteria to soil fertility and crop production	13,866.31
Investigations in date nutrition: Study of the optimum conditions for nutrition and fruit production of the date palm	757.97
Plant-nutrition investigations: Study of the methods for determining the fertilizer requirements of crops and the functions of the different elements of plant food in their relation to the nutrition and composition of crop plants	9,056.16
Total	41,028.86

CROP ACCLIMATIZATION AND COTTON-BREEDING INVESTIGATIONS.

Total expenditures as above	$40,849.09
Outstanding liabilities Aug. 31 (estimated)	629.38
Unexpended balance (estimated)	355.54
Total allotment	41,834.01

Distributed among the several subactivities as follows:	
Supervision: General direction of field investigations, miscellaneous laboratory experiments, and clerical routine	$6,678.03
Acclimatization, adaptation, and breeding of cotton: Investigation of weevil-resistant and drought-resistant types of cotton and study of the factors of local adjustment	24,840.79
Acclimatization, adaptation, and extension of corn: This project deals especially with foreign varieties of corn and the extension of the culture of corn into regions where it is either not being grown or is a precarious crop	6,464.57
Acclimatization and adaptation of tropical plants: Study of tropical fruits and vegetables in their native habitat, including coffee, cacao, rubber and rubber substitutes, economic palms, and bananas, and their adjustment to conditions in the United States and insular possessions	3,495.08
Total	41,478.47

DRUG-PLANT, POISONOUS-PLANT, PHYSIOLOGICAL, AND FERMENTATION INVESTIGATIONS.

Total expenditure as above	$63,123.72
Outstanding liabilities, Aug. 31 (estimated)	1,949.03
Unexpended balance (estimated)	502.74
Total allotment	65,575.49

Distributed among the several subactivities as follows:	
Supervision: General direction of field investigations, miscellaneous laboratory experiments, and clerical routine	10,823.91
Drug and related plants and their products: Study of the culture, handling, and improvement of plants yielding drugs, spices, poisons, oils, and related products and by-products, with the view of adding profitable new crops and products to American plant industries	21,985.12
Poisonous-plant investigations: Field and laboratory studies of plants and plant products poisonous to man and animals, including larkspurs, death camas, lupines, and others found on the western stock ranges	8,616.98
Physiological and fermentation investigations: Technical physiological studies of crop plants and their products, conducted, in various instances, in cooperation with pathological and crop investigations of other offices of the bureau	23,646.74
Total	65,072.75

AGRICULTURAL TECHNOLOGY AND FIBER-PLANT INVESTIGATION.

Total expenditures as above	$14,439.09
Outstanding liabilities, Aug. 31 (estimated)	310.98
Unexpended balance (estimated)	21.54
Total allotment	14,771.61

Distributed among the several subactivities as follows:	
Agricultural technological investigations: Investigation of free-living and plant-infesting nematodes, improvement of laboratory and field equipment, development of apparatus for solar and artificial projection in connection with illustrative work, and various other technological problems	6,343.51

Fiber-plant investigations: Cultivation of sisal, henequen, and similar hard-fiber plants in the United States and insular possessions; extension of flax and hemp industries in this country both for seed and fiber; investigations of plant fibers used in brushes, upholstery, and other textile lines; laboratory work in measuring and testing the tensile strength of fibers; and identification of fibers and fiber plants	$8,406.56
Total	14,750.07

COTTON STANDARDIZATION.

Total expenditures as above	$83,336.98
Outstanding liabilities, Aug. 31 (estimated)	5,040.11
Unexpended balance (estimated)	9,098.41
Total allotment	97,475.50

Distributed among the several subactivities as follows:

Cotton standardization: Investigation of all the elements entering into the intrinsic value of cotton with a view to standardize them, using the present United States official grades as a basis	27,074.90
Cotton grades and samples: The furnishing of official grades, and samples of the bleached and unbleached yarns made from these grades, showing waste, tensile strength, and bleaching quality, to associations organized for the purpose of receiving and caring for such grades under the rules and regulations prescribed by the Secretary of Agriculture	9,974.16
Cotton testing: The object of this project is to ascertain the waste, tensile strength, and bleaching qualities of the different grades of cotton as standardized by the Government	51,328.03
Total	88,377.09

GRAIN STANDARDIZATION.

Total expenditures as above	$85,293.02
Outstanding liabilities, Aug. 31 (estimated)	750.11
Unexpended balance (estimated)	28.52
Total allotment	86,071.65

Distributed among the several subactivities as follows:

Supervision: General direction of grain-standardization investigations, including work at the laboratories maintained outside of Washington; fixing and promulgation of definite grades; and clerical and laboratory routine	12,109.46
Grain handling, grading, and transportation: Study of the influence on grades and market values as affected by methods of handling grain on the farm, in transit on cars and steamships, and while in storage; study of the relation between the commercial grade of grain and its milling and baking value; laboratory experiments for determining moisture content, effect of chemical changes, various kinds of damage, shrinkage, etc., and the fundamental causes of deterioration, with a view to establish uniform and definite standards for the grading of commercial grain on the basis of intrinsic value	$73,933.67
Total	86,043.13

BIOPHYSICAL INVESTIGATIONS.

Total expenditures as above	$27,583.25
Outstanding liabilities, Aug. 31 (estimated)	1,133.59
Unexpended balance (estimated)	41.49
Total allotment	28,758.33

Distributed among the several subactivities, as follows:

Supervision: General direction of biophysical investigations; office routine; construction and repair of apparatus	7,340.18
Cooperative biophysical investigations: Study and comparison of environmental conditions under which crops can be produced in the semiarid regions; investigation of the most efficient methods of conserving moisture and plant nutrients in the soil, and other related problems; determination of the amount of water required by different plants for the production of a pound of dry matter	10,957.50
Special biophysical investigations: Development of improved apparatus for the rapid determination of the moisture content of grain during transit; experiments in electroculture; methods of correcting unfavorable nutrient solutions in the soil which lead to malnutrition of plants; and various other biophysical experiments in cooperation with the different offices of the bureau	10,419.16
Total	28,716.84

SEED-TESTING LABORATORIES.

Total expenditures as above	$35,818.59
Outstanding liabilities, Aug. 31 (estimated)	1,395.56
Unexpended balance (estimated)	36.18
Total allotment	37,250.33

Distributed among the several subactivities as follows.

Supervision: General supervisory and clerical work in connection with the various activities of the office	8,823.43
Seed testing: Making tests at laboratories in and out of Washington for germination and mechanical purity of samples of seeds submitted by farmers and seedsmen	16,163.35
Seed purity and vitality investigations: Tests to determine the conditions required for rapid and complete germination and greater vitality and to distinguish characters of closely allied economic seeds in order to disseminate information as to identity of various classes of commercial seeds	5,215.01
Adulterated-seed investigations: Testing commercial seeds for proof of adulteration, in accordance with law	5,877.25
Enforcement of the seed-importation act: Enforcement of the act of Aug. 24, 1912, prohibiting the importation of seeds adulterated or unfit for seeding purposes as defined in the act	1,135.11
Total	37,214.15

Cereal Investigations.

Total expenditures as above	$142,962.11
Outstanding liabilities, Aug. 31 (estimated)	6,981.66
Unexpended balance (estimated)	2,152.56
Total allotment	152,096.33

Distributed among the several subactivities as follows:

Supervision: General direction of field investigations, miscellaneous laboratory experiments, and clerical routine	18,931.00
Production and improvement of cereals and cereal products: Investigations include wheat, oats, barley, rice, grain sorghums, broom corn, and other grains	25,180.00
Maintenance of cereal field stations: Experiments in the introduction, improvement, and methods of production of all classes of cereals adapted to the localities of the various field stations	50,687.42
Tillage and rotation investigations: Improvement in yield and quality of cereals, by cultural methods and rotation of crops, on the arid lands of the West	1,500.00
Cereal diseases: Laboratory and field experiments and studies in the life history of rusts, smuts, scab, and other diseases of grain, and of methods for their control; breeding of disease-resistant types of grains	12,451.00
Corn production and improvement: Laboratory and field experiments in the production and improvement of corn; study of the effects on corn of heredity and environment; production of improved strains for the different geographical sections of the United States; and tests and demonstrations of best practical methods of seed-corn selection, fumigation, drying, and preservation	41,194.35
Total	149,943.77

Tobacco Investigations.

Total expenditures as above	$28,400.34
Outstanding liabilities, Aug. 31 (estimated)	553.19
Unexpended balance (estimated)	119.25
Total allotment	29,072.78

Distributed among the several subactivities as follows:

Supervision: General direction of tobacco investigations in and out of Washington, miscellaneous laboratory experiments, and clerical routine	6,318.04
New England cigar-wrapper tobacco investigations: Study of improved methods of growing, curing, and handling cigar-wrapper leaf	2,252.25
Maryland export tobacco investigations: Development and demonstration of improved methods of growing, curing, and handling tobacco	1,439.95
Burley tobacco investigations: Testing of pure strains of standard Burley tobacco varieties to determine the most improved methods of growing and curing	1,105.75
Western fire-cured tobacco investigations: Tests and experiments to determine and demonstrate the best methods of growing, curing, and handling pure strains of fire-cured tobacco	1,085.48
New York binder and filler tobacco investigations: Development of better strains of tobacco by improved cultural methods	1,734.97
Sun-cured, fire-cured, and flue-cured tobacco investigations: Development of improved types of tobacco by breeding and selection, fertilization, etc.; and experiments for the control of the Granville tobacco wilt	$8,791.54
Pennsylvania cigar-filler tobacco investigations: Experiments to improve the yield of cigar filler and binder leaf by better methods of cultivating and handling the crop	2,864.53
Miscellaneous tobacco investigations: Study of the physiology and chemistry of the tobacco plant in relation to improved methods of growing, curing, fermenting, and handling the crop. This work supplies the fundamentals for the practical work in improvement of methods of tobacco production	3,361.02
Total	28,953.53

Paper-Plant Investigations.

Total expenditures as above	$13,607.85
Outstanding liabilities, Aug. 31 (estimated)	921.23
Unexpended balance (estimated)	413.86
Total allotment	14,942.94

The utilization of crop plants as paper stock, including tests of cornstalks, rice straw, broom corn, stover, and other material from both wild and cultivated plants which can be used as substitutes for wood in paper making	14,529.08

Alkali and Drought Resistant Plant Investigations.

Total expenditures as above	$23,738.19
Outstanding liabilities, Aug. 31 (estimated)	703.89
Unexpended balance (estimated)	257.59
Total allotment	24,699.67

Distributed among the several subactivities as follows:

Supervision: General direction of field investigations and laboratory experiments, and office details	4,427.41
Breeding and physiology of alkali and drought resistant plants: Breeding of various crop plants suitable for cultivation under alkali and drought conditions; investigation of native vegetation of arid regions with a view to its use as an indicator in classifying land upon the basis of its crop-producing capabilities; and the development, by introduction and breeding, of drought and alkali resistant varieties of pomegranates	15,339.67
Egyptian cotton breeding and alkali and drought resistance investigations in the arid Southwest	4,675.00
Total	24,442.08

Sugar-Beet Investigations.

Total expenditures as above	$39,901.10
Outstanding liabilities, Aug. 31 (estimated)	2,235.92
Unexpended balance (estimated)	1,072.98
Total allotment	43,210.00

Distributed among the several subactivities as follows:

Supervision: General direction of field investigations, miscellaneous laboratory experiments, and clerical routine	2,575.00

Sugar-beet investigations: Study of the economic practices in crop production in sugar-beet areas; investigation of the present status of the sugar-beet industry in the United States; and investigations of diseases of sugar beets, experiments looking to improved cultural methods, and breeding of improved varieties	$30,479.62
Sugar-cane sirup production: Investigations in connection with the production of table sirup, including the breeding, culture, and diseases of cane, the methods of manufacture, standardization, and marketing of sirup, and the utilization of cane by-products, with special reference to the farm production of cane sirup	8,082.40
Total	42,137.02

INVESTIGATIONS IN ECONOMIC AND SYSTEMATIC BOTANY.

Total expenditures as above	$33,063.17
Outstanding liabilities, Aug. 31 (estimated)	810.32
Unexpended balance (estimated)	130.41
Total allotment	34,003.90

Distributed among the several subactivities as follows:

Supervision: General direction of scientific investigations and clerical routine	9,562.60
Range investigations: Study of the life history of forage plants of the national ranges; experiments in pasturing and in both natural and artificial reseeding of destructively overgrazed and worn-out range lands	2,106.33
Economic botany of native races: The work under this project has special reference to the utilization of valuable species in the western United States, Mexico, and South America, and plants used by the American aborigines	4,679.00
Botany of economic grasses: Collection and identification of economic grasses, both native plants and foreign introductions; preservation of authentic and correctly named specimens; and compilation of a manual of North American grasses	7,772.51
Systematic work in economic botany: Includes an economic monograph of the heather and blueberry families, with special reference to their utilization in the United States; preparation and publication of bulletins on nonperennial Medicagos and varieties of Philadelphus, Deutzia, Escallonia, and their allies; and various other economic problems	9,753.05
Total	33,873.49

FARM MANAGEMENT.

Total expenditures as above	$276,337.65
Outstanding liabilities, Aug. 31 (estimated)	3,367.03
Unexpended balance (estimated)	4,661.09
Total allotment	284,365.77

Distributed among the several subactivities as follows:

Supervision: Planning and directing farm-management investigations and demonstrations and clerical routine incident thereto	34,007.57
Farm economics: Detailed studies of the relation of farm income to factors of production, including cost-accounting investigations, farm-management surveys, study of farm equipment, etc	78,504.50
Special farm-management studies: Investigations of tenant farming; studies of the relation of weeds and tillage to farm management, the relation of farm practice to yields, and the relation of geographic factors to farm enterprises; investigations of hay making and utilization, farm credits, farm insurance, etc	$58,619.20
Farm-management field studies: Regional investigations of the practices, organization, and administration of individual farms; and studies of types and systems of farming, with a view to enable farmers to improve their systems of farm management	92,722.27
Utilization of cacti and dry-land plants: Experiments to determine the value of the prickly pear as forage, for ornamental purposes, and as human food, and to develop spineless varieties of cactus; also studies to determine the carrying capacity of ranges, means of restoring overgrazed areas, and investigation of range management under different conditions	11,070.61
Clearing and utilization of logged-off lands: The working out of methods for clearing logged-off lands and their utilization for agricultural and dairying purposes	4,780.53
Total	279,704.68

FARMERS' COOPERATIVE DEMONSTRATIONS IN THE NORTH AND WEST.

Total expenditures as above	$377,843.78
Outstanding liabilities, Aug. 31 (estimated)	8,901.59
Unexpended balance (estimated)	19,087.63
Total allotment	405,833.00

Distributed among the several subactivities as follows:

Supervision: General direction of the demonstration work in the Northern and Western States, and office routine	72,114.74
County-agent work: Farm demonstration work in the Northern and Western States in cooperation with State agricultural colleges and county organizations	268,113.24
Boys' and girls' club work: The object of this work is to interest boys and girls in farm and farm-home problems and to teach them better methods of farm and garden practices	46,517.39
Total	386,745.37

FARMERS' COOPERATIVE DEMONSTRATIONS IN THE SOUTH.

Total expenditures as above	$688,059.03
Outstanding liabilities, Aug. 31 (estimated)	11,659.88
Unexpended balance (estimated)	1,032.94
Total allotment	700,751.85

Distributed among the several subactivities as follows:

Supervision: General direction of demonstration work in the South, outlining plans for cooperators and agents in the field, and clerical routine	90,772.07
Demonstration work in the South: Demonstration of improved cultural methods, diversification of crops, rotations for soil improvement, production of home supplies, and all known means of counteracting the effects of the invasion and ravages of the cotton boll weevil	608,946.84
Total	699,718.91

DRY-LAND AGRICULTURE INVESTIGATIONS.

Total expenditures as above	$157,299.55
Outstanding liabilities, Aug. 31 (estimated)	7,157.61
Unexpended balance (estimated)	556.17
Total allotment	165,013.33
Distributed among the several subactivities as follows:	
Supervision: Planning and directing field investigations, and clerical routine incident to the work	23,656.33
Methods of crop production under dry-land conditions: Experiments in crop rotation for the conservation of moisture and maintenance of humus in the soil and other cultural methods for improving agricultural conditions in the Great Plains area	108,677.25
Northern Great Plains field station: Maintenance of an experimental farm to demonstrate the kind and character of plants, shrubs, trees, berries, and vegetables best adapted to the climate and soil of the semiarid regions	32,123.58
Total	164,457.16

WESTERN IRRIGATION AGRICULTURE INVESTIGATIONS.

Total expenditures as above	$79,990.71
Outstanding liabilities, Aug. 31 (estimated)	4,379.71
Unexpended balance (estimated)	102.08
Total allotment	84,472.50
Distributed among the several subactivities as follows:	
Supervision: Planning and directing field investigations and conducting routine clerical work	15,958.41
Crop production under irrigation: Study of agricultural problems connected with subduing new and reclaimed lands and best methods of tillage, irrigation, etc., necessary for the utilization of these lands; and the supervision of experimental work in cooperation with other branches of the bureau and the Reclamation Service	65,359.02
Southwestern cotton culture: Introduction into commercial culture in the arid Southwest of profitable strains of long-staple cottons bred and acclimatized to meet local conditions	3,052.99
Total	84,370.42

POMOLOGICAL INVESTIGATIONS.

Total expenditures as above	$115,574.59
Outstanding liabilities, Aug. 31 (estimated)	11,657.86
Unexpended balance (estimated)	186.55
Total allotment	127,419.00
Distributed among the several subactivities, as follows:	
Supervision: Planning and directing field investigations and conducting clerical routine	14,940.57
Fruit transportation, storage, and utilization: Study of the causes of deterioration and means of improving the keeping and carrying quality of fruit by improved methods of picking, handling, precooling, and proper refrigeration during transit and in storage; study of the methods of manufacturing fruit juices of various kinds and of the principles of drying and conserving fruits	39,840.83
Viticultural investigations: Experiments in the culture of native and foreign varieties of grapes and methods of handling and marketing grapes and grape products, including a study of the unfermented grape juice industry, with a view to extend the grape industry throughout the Middle and South Atlantic and Gulf States	$17,580.00
Fruit-production investigations: Study of the adaptability of fruit varieties to environment in different sections, including the cultivation of fruits under semiarid conditions and on national forest lands	13,770.83
Nut-culture investigations: Study of the relative merit and adaptability of pecan varieties to soils and climatic conditions of the South Atlantic and Gulf States; testing the effects of cross-pollination on quantity and quality; also experimental work with native and introduced walnuts, butternuts, filberts, chestnuts, and almonds	6,125.00
Pomological breeding investigations: Improvement of the quality and type of citrus fruits, especially in California, by breeding and seed selection; breeding hardy fruits adapted to conditions in the upper Mississippi Valley, in cooperation with the Iowa State Experiment Station and State Horticultural Society; improvement of peaches in the New England States through bud selection; and a general study of the laws of inheritance and other principles of fruit breeding	17,418.00
Fruit-history investigations: Assembling of general data regarding the origin and history of the different fruit varieties in the United States and of biographical data concerning the men who have been prominent in earlier times in influencing and shaping the trend of the pomological affairs of the country	4,635.42
Fruit-nomenclature investigations: Standardization and simplification of the nomenclature of fruits with a view to determine the proper names and synonyms of varieties and to establish a definite practice of naming new varieties	5,926.80
Fruit-identification investigations: Identification of fruits submitted by growers and others for description and general information concerning characteristics, etc.; making of detailed varietal descriptions and water-color illustrations and facsimile models of varieties; and preparation of keys for use in making identification	6,995.00
Total	127,232.45

HORTICULTURAL INVESTIGATIONS.

Total expenditures as above	$60,930.93
Outstanding liabilities, Aug. 31 (estimated)	4,999.94
Unexpended balance (estimated)	454.84
Total allotment	66,385.71
Distributed among the several subactivities as follows:	
Supervision: Planning and directing field investigations, miscellaneous laboratory experiments, and clerical routine	14,401.54
Truck-crop investigations: Testing and developing new and improved strains of vegetables, especially under glass; study of the value of organic soils with reference to their utility in the growing of vegetables; fertilizer experiments; a comprehensive study of the peanut industry; and a special study of the culture and curing of sweet potatoes	17,957.66

Vegetable transportation, storage, and utilization: Determination of the factors which influence and control the successful handling of vegetables, including methods of harvesting, grading, and precooling for transportation and storage; study of methods of utilizing the lower grades of vegetables and surplus stock which can not be marketed profitably in a fresh state	$3,500.00
Potato investigations: A comprehensive study of the culture, handling, and utilization of the potato, including the development of disease-resistant varieties	23,005.00
Landscape gardening, floriculture, and miscellaneous horticultural investigations: Study of the arrangement, effects, and uses of trees, shrubs, and plants on streets, parks, and lawns, and investigations of the efficiency of various systems of plant propagation	7,066.67
Total	65,930.87

ARLINGTON FARM.

Total expenditures as above	$33,298.37
Outstanding liabilities, Aug. 31 (estimated)	101.02
Unexpended balance (estimated)	741.11
Total allotment	34,140.50
The Arlington farm furnishes facilities for a wide variety of testing, breeding, and selection work; includes the maintenance of fruit-variety and other horticultural collections for systematic study, comparison, and description, and an investigation of methods of plant propagation	33,399.39

EXPERIMENTAL GARDENS AND GROUNDS.

Total expenditures as above	$52,966.38
Outstanding liabilities, Aug. 31 (estimated)	234.79
Unexpended balance (estimated)	74.57
Total allotment	53,275.74
The care and upkeep of the department grounds and greenhouses, including the construction and repair of greenhouses; growing and care of tropical and miscellaneous plants under glass; improvement of grounds (including the planting of trees, shrubs, etc.); experimental work with vegetables and florists' crops; providing greenhouse facilities for vegetable pathological and physiological experiments of various offices of the bureau; and general hybridization work	53,201.17

FOREIGN SEED AND PLANT INTRODUCTION.

Total expenditures as above	$102,118.39
Outstanding liabilities, Aug. 31 (estimated)	7,301.12
Unexpended balance (estimated)	289.02
Total allotment	109,708.53
Distributed among the several subactivities as follows:	
Supervision: General direction of foreign introductions; securing through correspondence new and valuable seeds and plants from all parts of the world and distributing same for test among experimenters in this country; recording all imported plant material; and conducting routine clerical work	46,282.05
Foreign explorations: This project covers the cost of sending out trained agricultural explorers to investigate agricultural methods and resources of foreign countries and search for seeds and plants that may be useful and profitable to American planters and assist in the introduction and development of new plant industries	$11,799.33
Plant-introduction field investigations: Maintenance of plant-introduction gardens at Chico, Cal., Miami and Brooksville, Fla., and Rockville, Md., for the purpose of testing and propagating new plant introductions and distributing them to suitable localities in this country	51,338.13
Total	109,419.51

FORAGE-CROP INVESTIGATIONS.

Total expenditures as above	$64,902.42
Outstanding liabilities, Aug. 31 (estimated)	3,630.43
Unexpended balance (estimated)	3,771.59
Total allotment	72,304.44
Distributed among the several subactivities as follows:	
Supervision: General direction of field investigations and clerical routine	13,624.44
Forage-crop production and improvement: Tests and experiments with alfalfas, clovers, grasses, and miscellaneous forage crops, including a study of improved methods of culture of forage crops in the semiarid regions	54,908.41
Total	68,532.85

SEED DISTRIBUTION.

Total expenditures as above	$361,442.95
Outstanding liabilities, Aug. 31 (estimated)	19,551.33
Unexpended balance (estimated)	6,804.98
Total allotment	387,799.26
Distributed among the several subactivities as follows:	
Supervision: General direction of the distribution of seeds and plants, including routine office work	23,721.27
Congressional distribution of seeds and plants: Purchase, transportation, handling, packeting, assembling, and mailing of vegetable, flower, cotton, tobacco, and lawn-grass seeds, Dutch bulbs, strawberry plants, and miscellaneous seeds and plants for distribution; cleaning seed purchased for distribution and investigation of seed-distribution methods; commercial production of Dutch bulbs and of sugar-beet seed, with a view to establish the industries on a commercial basis in the United States	255,595.97
Purchase and distribution of new and rare seeds: Under this project seeds of Sudan grass, Grimm alfalfa, feterita, milo, kafir corn, and improved varieties of cowpeas, soy beans, field peas, and velvet beans were purchased and distributed throughout the various sections of the country to which the crops are adapted	101,677.04
Total	380,994.28

DEMONSTRATIONS ON RECLAMATION PROJECTS.

Total expenditures as above	$24,319.90
Outstanding liabilities, Aug. 31 (estimated)	2,609.66
Unexpended balance (estimated)	13,070.44
Total allotment	40,000.00

The object of this work is to encourage and aid in the agricultural development of Government reclamation projects and to assist the settlers on such projects by means of demonstrations and advice $26,929.56

FOREST SERVICE.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.		Salaries.				Travel, station, and field expenses.	Equipment.		
			Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
				In Washington.	Out of Washington.					
1	Washington office		$192,564.61	$163,846.63	$44,514.97	$407,126.21	$48,666.71			$43,527.37
2	Headquarters, district 1		41,638.75		114,457.13	156,095.88	26,938.80			10,272.13
3	Headquarters, district 2		37,541.61		52,217.86	89,759.47	18,971.67			1,089.58
4	Headquarters, district 3		33,511.76		40,525.17	74,036.93	14,835.92			1,844.66
5	Headquarters, district 4		31,877.00		47,302.33	79,379.33	15,718.06			1,551.65
6	Headquarters, district 5		41,662.09		54,120.74	95,782.83	13,053.00			4,062.10
7	Headquarters, district 6		41,410.82		71,482.26	112,893.08	13,382.29			3,083.31
8	Headquarters, district 7		5,350.00	13,213.88		18,563.88	2,315.19			.25
9	Forest-products laboratory		26,864.66		78,274.62	105,139.28	9,338.63			13,320.82
10	Supply depot, Ogden, Utah		14,015.50		1,600.00	15,615.50	710.32	$21,584.19	$12,073.99	25,099.10
11	Property auditor, Ogden, Utah		7,025.27		2.00	7,027.27	909.64			
12	Priest River experiment station				7,761.84	7,761.84	485.26			2,009.08
13	Fremont experiment station				2,872.13	2,872.13	125.24			605.46
14	Wagon Wheel Gap experiment station.		736.39		1,698.87	2,435.26	87.00			464.72
15	Fort Valley experiment station		174.18		6,482.40	6,656.58	914.72			484.29
16	Utah experiment station		300.00		9,890.30	10,190.30	529.50			1,482.74
17	Converse experiment station				1,925.97	1,925.97	136.20			505.63
18	Feather River experiment station.				6,081.16	6,081.16	536.81			1,638.81
19	Wind River experiment station				1,688.32	1,688.32				301.70
20	Total (exclusive of the national forests).		480,872.64	177,060.51	542,898.07	1,200,831.22	167,654.96	21,584.19	12,073.99	111,343.40
	NATIONAL FORESTS.	*Acres, net.*[1]								
21	Absaroka	843,675	12,206.38		5,977.60	18,183.98	916,39			1,159.12
22	Alamo	667,743	9,408,06		3,198.54	12,606.60	666.20			591.24
23	Angeles	887,964	28,060.29		14,935.21	42,995.50	3,765.54			5,367.70
24	Apache	1,186,848	14,247.07		7,844.51	22,091.58	1,519.46			3,148.77
25	Arapaho	636,980	10,332.78		5,874.66	16,207.44	555.21			4,322.06
26	Arkansas	680,430	14,219.70		10,973.56	25,193.26	1,849.86			2,319.31
27	Ashley	988,630	9,738.32		2,272.07	12,010.39	382.70			635.68
28	Battlement	653,199	9,616.67		5,624,33	15,241.00	827.83			546.66
29	Beartooth	663,844	9,084.72		2,929.81	12,014.53	1,043.46			432.45
30	Beaverhead	1,338,641	11,819.45		22,833.66	34,653.11	972.72			2,496.00
31	Bighorn	1,123,585	14,876.40		5,805.26	20,681.66	1,393.24			2,209.47
32	Bitterroot	1,047,013	11,372.50		14,506.97	25,879.47	1,204.34			1,858.81
33	Blackfeet	856,743	10,758.89		21,118.05	31,876.94	1,596.36			5,438.73
34	Black Hills	485,389	16,515.03		15,006.72	31,521.75	1,681.75			1,497.49
35	Boise	1,046,438	12,141.67		6,026.15	18,167.82	464.56			2,002 08
36	Bonneville	607,173	6,010.82		7,092.59	13,103.41	877.63			808.12
37	Bridger	570,992	5,816.94		2,012.24	7,829.18	234.22			623.43
38	Cabinet	846,790	7,891.38		31,038.04	38,929.42	1,021.35			3,746.07
39	Cache	523,377	10,765.00		4,688.69	15,363.69	305.90			888.53
40	California	822,137	13,281.67		26,377.54	39,659.21	1,367.41			7,208.38
41	Caribou	696,120	11,984.45		6,288.17	18,272.62	587.02			382.29
42	Carson	876,959	17,069.16		11,677.55	28,746.71	3,302.54			1,660.67
43	Cascade	1,019,505	9,245.83		21,829.82	31,075.65	1,359.06			5,118.07
44	Challis	1,261,052	8,690.83		6,830.11	15,520.94	443.54			763.58
45	Chelan	687,183	6,532.78		7,735.91	14,268.69	707.13			742.37
46	Chiricahua	476,369	7,496.66		2,364.20	9,860.86	367.54			1,105.53
47	Chugach	11,170,929	4,800.00		4,594.48	9,394.48	2,711.24			1,551.18
48	Clearwater	849,471	7,582.77		76,579.59	84,162.36	1,276.58			17,960.11
49	Cleveland	883,041	15,846.65		11,817.88	27,664.53	2,617.61			1,223.70
50	Cochetopa	902,924	9,447.50		8,350.64	17,798.14	1,090.21			2,510.89
51	Coconino	1,601,523	16,976.72		9,501.34	26,478.06	2,239.62			3,136.68
52	Coeur d'Alene	616,822	11,344.18		34,083.50	45,427.68	3,158.78			4,058.68
53	Colorado	495,826	9,404.98		5,233.93	14,638 91	1,812.90			764.74
54	Columbia	770,293	9,906.39		23,043.69	32,950.08	1,728.11			5,580.90
55	Colville	750,223	11,400.00		17,956.39	29,356.39	2,280.90			2,568.36
56	Coronado	962,690	11,416.68		7,375.40	18,792.08	1,732.14			958.72
57	Crater	804,666	14,479.18		20,396.06	34,875.24	1,854.55			4,619.57
58	Crook	867,286	8,154.42		3,312.94	11,467.36	1,107.73			1,024.53
59	Custer	436,987	6,147.22		3,060.45	9,207.67	547.49			336.14
60	Dakota	6,414	1,096.94		10.00	1,106.94	39.82			163.41
61	Datil	2,690,365	15,581.64		10,538.39	26,120.03	1,822.15			1,712.96
62	Deerlodge	835,986	21,304.16		19,884.70	41,188.86	2,419.23			2,239.82
63	Deschutes	804,748	8,727.77		8,908.30	17,636.07	1,975.54			1,608.15
64	Dixie	1,039,061	7,659.58		2,001.88	9,661.46	870.08			828.10
65	Durango	615,221	9,631.79		4,952.88	14,584.67	621.51			1,440.01
66	Eldorado	549,750	11,151.20		8,187.22	19,338.42	2,202.80			3,477.96
67	Fillmore	701,322	12,390.82		1,935.05	14,325.87	582.81			673.63
68	Fishlake	661,783	9,689.43		5,411.46	15,100.89	367.38			1,425.16

[1] Exclusive of lands eliminated for agricultural use, homestead entry, mining claims, etc.

CITRUS-CANKER INVESTIGATIONS.

Total expenditures as above	$32,167.23
Outstanding liabilities, Aug. 31 (estimated)	1,703.25
Unexpended balance (estimated)	1,129.52
Total allotment	35,000.00

The purpose of this project is to investigate the cause, nature, and means of communication of citrus canker and to study methods of eradication or control, in cooperation with State authorities and growers $33,870.48

FOREST SERVICE.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
		$8,320.84	$1,594.69				$1,483.63	$5,797.99	$510,317.44	1
	$598.33	278.99	3,252.13				33.31	15,952.52	213,422.09	2
	6,510.22	480.46	943.75	$61.60				217.44	118,034.19	3
	4,914.97	658.60	628.77	39.00				46.30	97,005.15	4
	2,550.00	1,085.92	397.20	735.02		$287.29	15.89	1,358.49	102,878.85	5
	6,642.78	798.60	545.71				44.80	33.95	120,963.77	6
	7,371.23	1,005.04	390.23					63.84	138,189.02	7
		3.48						126.55	27,209.35	8
		292.35	1,787.28	40.98				930.33	130,849.67	9
$36,641.59	2,550.00		6,984.16			249.96			121,508.81	10
									7,936.91	11
		6.05	305.80	21.34	$211.10	100.66		55.47	10,956.60	12
		10.37	205.04					1.50	3,819.74	13
		31.77	56.17					50.00	3,124.92	14
		9.76	129.63	11.90		154.15			8,361.03	15
		2.03	242.84		164.46			8.40	12,620.27	16
		9.68	188.75	2.00				11.05	2,779.28	17
		6.24	219.47	14.25		102.80		59.96	8,659.50	18
									1,990.02	19
36,641.59	31,137.53	13,000.18	17,871.62	926.09	375.56	894.86	1,577.63	24,713.79	1,640,626.61	20
	120.00	129.61	75.72		753.18		19.31	230.35	21,587.66	21
	175.00	5.95	235.76	27.90	578.75	51.70	12.91	14.23	14,966.24	22
	233.30	508.80	3,158.71	3.28	748.32	4.70		9.97	56,795.82	23
	144.00	72.21	1,261.83	29.40	715.37	39.42	44.02	9.75	29,075.81	24
	294.50	163.40	872.65	13.25	820.82	37.70	23.78	317.35	23,628.16	25
		203.10	406.96		886.71		79.45	62.28	31,000.93	26
	195.00	31.85	10.31	14.05	537.96	10.40	23.85	340.60	14,192.80	27
	300.00	85.09	370.65	.90	431.34	48.30	10.96	13.45	17,876.18	28
	420.00	131.91	77.43	17.50	175.77		28.02	337.30	14,678.37	29
	300.00	105.37	1,939.04		479.78		7.62	58.05	41,011.69	30
		156.34	904.45		388.63		9.10	90.47	25,833.36	31
	888.50	176.09	600.37		222.10		28.40	87.75	30,945.83	32
	460.00	101.37	3,944.24		423.35		20.50	10.08	43,871.57	33
	12.00	22.99	1,093.61	2.50	124.43		38.73	443.48	36,438.73	34
	600.00	87.50	823.06	10.80	535.00		7.50	22.02	22,720.34	35
	107.58	19.69	697.18	.90	452.21	29.00	3.64	47.53	16,146.89	36
	10.00	71.29	643.19	4.35	263.12	37.50	9.44	7.40	9,733.12	37
	360.00	100.06	2,843.89	14.50			10.10	441.12	47,466.51	38
	73.00	76.90	348.55		323.98	6.70	60.50	8.50	17,456.25	39
	603.11	91.02	9,376.76		583.47	8.25		30.08	58,927.69	40
	314.58	81.00	520.64	24.84	555.74		16.24	5.30	20,760.27	41
	226.66	153.91	535.30	5.00	1,112.70	69.65	48.15	11.34	35,872.63	42
	60.00	75.71	1,237.71		291.31		1.92	23.95	39,243.38	43
	192.00	1.20	298.37	2.00	391.21	48.00	7.25	105.22	17,773.31	44
	300.00	7.72	396.38	39.00	102.90	32.50	9.35	9.20	16,615.24	45
			156.97	2.70	173.00	17.75	17.16	.40	11,701.91	46
		54.30	100.56	25.00		90.80		96.90	14,024.46	47
	360.00	348.49	19,893.38		225.00		47.93	2,603.89	126,877.74	48
	245.75	181.86	1,301.21	7.90	523.43	14.25		130.62	33,910.86	49
	240.00	118.35	292.35	30.15	270.45	16.27	20.38	69.80	22,456.99	50
	618.10	93.60	426.43		1,592.65		19.52	7.50	34,612.16	51
	546.00	334.31	1,517.98	60.00	825.86		306.25	280.39	56,515.93	52
		195.45	371.75		315.48		4.44	45.12	18,148.79	53
	750.00	65.32	758.69		180.81			49.33	42,063.24	54
	488.00	132.93	1,338.04	33.00	148.97	73.00	17.20		36,436.79	55
	600.00	92.80	445.57	39.22	884.29	42.50	15.80	3.95	23,607.07	56
	540.00	178.81	712.88	25.85	790.15	66.12	40.85	20.57	43,724.29	57
	240.00	63.15	276.01	54.03	682.70				14,915.51	58
	300.00	34.21	41.34	13.15	393.07		18.85	26.05	10,917.97	59
			49.78					20.25	1,380.20	60
	438.00	16.02	791.36	52.53	1,063.62	45.41	12.78	23.58	32,098.44	61
	985.50	238.98	1,210.99		1,101.08		10.35	60.85	49,455.66	62
	588.00	93.90	489.65	16.25			6.30	8.88	22,422.74	63
	300.00	46.29	299.80	20.00	561.39	19.00	5.35	20.60	12,632.07	64
	447.00	215.02	133.62		449.94		5.18	12.25	17,909.20	65
	448.00	83.56	1,527.24	38.70	248.44	44.84	41.46	63.23	27,514.65	66
	254.50	54.48	343.38		465.99		16.91	46.17	16,763.74	67
	273.90	40.25	233.35	1.70	483.93		12.80	6.68	17,946.04	68

FOREST SERVICE—Continued.

Classification of expenditures for the fiscal year ended June 30, 1915—Continued.

	Project.		Salaries.				Travel, station, and field expenses.	Equipment.		
			Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
				In Washington.	Out of Washington.					
	NATIONAL FORESTS—continued.	*Acres, net.*								
69	Flathead	1,812,104	$14,811.66		$60,553.49	$75,365.15	$3,017.19			$12,833.30
70	Florida	299,166	10,017.79		3,868.63	13,886.42	483.14			2,084.09
71	Fremont	777,202	10,308.33		6,287.29	16,595.62	1,064.29			1,573.39
72	Gallatin	565,554	10,016.68		4,506.17	14,522.85	1,306.45			653.36
73	Gila	1,438,023	18,515.55		12,225.77	30,741.32	2,454.84			2,880.41
74	Gunnison	908,658	12,314.72		3,451.09	15,765.81	802.99			713.15
75	Harney	565,260	17,032.49		13,155.18	30,187.67	1,149.31			4,412.12
76	Hayden	390,233	9,371.94		6,096.34	15,468.28	714.95			1,010.08
77	Helena	689,985	14,431.95		3,223.19	17,655.14	745.30			375.27
78	Holy Cross	577,634	10,322.79		4,232.72	14,555.51	979.77			1,261.95
79	Humboldt	692,573	7,250.00		2,935.01	10,185.01	609.80			710.03
80	Idaho	1,193,392	8,209.43		10,913.22	19,122.65	358.11			1,266.90
81	Inyo	1,325,230	8,569.44		2,018.76	10,588.20	377.03			524.03
82	Jefferson	1,045,269	15,668.61		4,216.67	19,885.28	1,349.53			1,940.26
83	Jemez	723,170	11,105.28		5,629.40	16,734.68	1,608.76			1,180.62
84	Kaibab	1,072,411	6,406.35		3,973.22	10,379.57	314.47			1,067.38
85	Kaniksu	458,653	14,297.78		19,718.63	34,016.41	2,749.41			2,427.31
86	Kansas	139,049	2,751.38		1,853.89	4,605.27	288.29			121.33
87	Kern	1,268,697								
88	Klamath	1,475,023	15,074.99		25,336.39	40,411.38	1,494.69			2,587.02
89	Kootenai	1,344,711	16,902.34		28,787.92	45,690.26	1,087.63			9,127.24
90	La Sal	548,524	7,636.67		1,912.73	9,549.40	541.07			466.24
91	Lassen	1,013,143	12,554.15		15,173.08	27,727.23	1,706.53			3,124.69
92	Leadville	935,566	11,521.28		3,400.72	14,922.00	811.12			740.63
93	Lemhi	1,067,146	9,879.71		3,278.25	13,157.96	792.13			1,548.97
94	Lewis and Clark	817,411	8,610.84		14,949.72	23,560.56	1,128.74			2,219.97
95	Lincoln	553,047	10,152.78		1,656.28	11,809.06	746.75			651.52
96	Lolo	862,316	13,754.44		28,785.11	42,539.55	966.18			4,009.29
97	Luquillo	32,975			3,736.81	3,736.81	1,153.45			
98	Madison	999,313	12,451.67		2,416.93	14,868.60	1,431.89			1,355.29
99	Malheur	1,057,682	8,620.00		5,921.95	14,541.95	287.68			1,126.41
100	Manti	723,294	15,554.73		7,766.63	23,321.36	1,078.74			794.10
101	Manzano	786,474	9,559.71		2,798.60	12,358.31	1,191.30			749.35
102	Marquette	20,517	1,787.22		280.89	2,068.11	270.44			156.17
103	Medicine Bow	469,786	12,309.73		4,376.50	16,686.23	1,375.30			1,061.62
104	Michigan	62,640	4,640.84		3,877.62	8,518.46	416.74			1,421.54
105	Minam	399,025	6,371.67		5,838.49	12,210.16	690.25			850.96
106	Minidoka	585,224	8,876.93		3,020.69	11,897.62	605.83			768.62
107	Minnesota	173,517	8,300.00		4,676.89	12,976.89	150.40			1,767.15
108	Missoula	996,254	11,276.95		13,672.14	24,949.09	1,321.18			3,938.29
109	Moapa	282,543					155.90			
110	Modoc	1,182,817	10,972.50		6,395.96	17,368.46	1,287.95			1,177.49
111	Mono	1,265,768	7,633.34		1,463.33	9,096.67	768.93			296.53
112	Monterey	438,765	4,450.00		2,686.09	7,136.09	350.23			1,013.92
113	Montezuma	699,523	9,281.39		4,360.06	13,641.45	576.47			560.41
114	Nebo	57,840			13.64	13.64	2.60			
115	Nebraska	198,056	4,040.54		12,905.63	16,946.17	353.01			8,232.05
116	Nevada	1,238,455	8,041.67		2,648.10	10,689.77	359.40			177.34
117	Nezperce	1,693,858	10,942.50		17,698.33	28,640.83	381.86			2,314.71
118	Ochoco	716,902	9,272.51		9,327.89	18,600.40	511.07			1,107.96
119	Okanogan	1,492,491	11,533.07		11,297.85	22,830.92	1,347.23			1,752.09
120	Olympic	1,536,079	11,620.00		21,391.90	33,011.90	2,510.17			2,108.23
121	Oregon	1,030,765	17,500.00		28,835.91	46,335.91	1,868.24			9,067.29
122	Ozark	488,949	16,844.74		6,706.47	23,551.21	2,102.02			1,035.42
123	Palisade	551,912	9,767.50		5,780.03	15,547.53	926.10			2,201.81
124	Paulina	806,760	3,300.00		4,597.70	7,897.70	800.99			973.61
125	Payette	832,047	20,929.48		20,758.95	41,688.43	1,247.60			5,471.15
126	Pecos	634,040	15,318.33		9,669.29	24,987.62	1,951.01			2,132.70
127	Pend d'Oreille	666,356	12,303.34		17,271.23	29,574.57	1,002.34			2,979.53
128	Pike	1,143,772	20,400.72		16,115.41	36,516.13	2,191.17			5,710.28
129	Plumas	1,147,556	19,337.50		27,382.00	46,719.50	4,619.26			4,081.43
130	Pocatello	258,006	5,910.56		2,233.67	8,144.23	268.80			682.03
131	Powell	690,469	9,748.05		6,909.58	16,657.63	368.56			694.80
132	Prescott	1,341,763	15,890.83		4,269.25	20,160.08	1,637.39			903.89
133	Rainier	1,310,405	13,090.97		27,101.80	40,192.77	1,128.74			1,968.90
134	Rio Grande	1,145,632	13,662.77		6,102.57	19,765.34	999.26			884.36
135	Routt	852,339	13,253.90		8,600.08	21,853.98	906.97			4,184.74
136	Ruby	343,627	3,975.27		5,594.62	9,569.89	332.53			1,601.67
137	St. Joe	643,611	12,643.30		49,114.82	61,758.12	3,877.42			3,923.96
138	Salmon	1,622,925	16,237.50		9,690.00	25,927.50	1,424.97			2,335.07
139	San Isabel	598,964	10,615.83		4,331.11	14,946.94	722.63			739.24
140	San Juan	610,733	9,671.67		5,514.14	15,185.81	509.35			1,437.38
141	Santa Barbara	1,698,008	22,438.60		13,546.04	35,984.64	1,959.56			1,761.83
142	Santa Rosa	270,246	6,525.29		1,339.04	7,864.33	508.85			1,071.66
143	Santiam	594,292	6,200.00		24,750.12	30,950.12	589.35			2,466.07
144	Sawtooth	1,203,806	10,916.11		4,726.05	15,642.16	433.64			1,212.56
145	Selway	1,694,603	9,656.37		74,710.43	84,366.80	664.44			10,558.32
146	Sequoia	926,255	21,178.76		18,905.98	40,084.74	2,497.53			3,749.49
147	Sevier	731,830	11,600.00		990.10	12,590.10	721.65			689.65
148	Shasta	828,205	17,494.99		50,056.66	67,551.65	3,772.56			6,222.84
149	Shoshone	1,577,591	14,019.72		3,482.75	17,502.47	1,013.32			1,152.56
150	Sierra	1,495,066	20,896.67		17,782.23	38,678.90	1,536.63			4,046.13
151	Sioux	180,697	4,975.00		2,979.64	7,954.64	535.60			315.92
152	Siskiyou	1,349,764	13,040.00		19,537.74	32,577.74	1,325.87			3,102.73
153	Sitgreaves	667,408	12,900.87		7,608.94	20,509.81	1,451.14			2,032.44

FOREST SERVICE—Continued.

Classification of expenditures for the fiscal year ended June 30, 1915—Continued.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
.....	$460.00	$181.56	$16,899.93	$4.20	$100.00	.....	$19.40	$1,371.91	$110,252.64	69
.....	.....	111.45	292.13	11.38	680.86	.....	39.34	100.27	17,689.08	70
.....	420.00	38.70	310.26	16.80	421.35	$42.00	3.90	217.05	20,703.36	71
.....	420.00	69.93	388.55	.....	360.00	.....	14.83	86.27	17,822.24	72
.....	300.00	61.55	683.57	37.50	1,497.75	118.90	22.89	9.00	38,807.73	73
.....	216.00	114.41	167.53	20.60	241.54	37.97	18.93	29.80	18,128.73	74
.....	576.00	7.89	573.74	.20	455.23	16.37	14.75	145.79	37,539.07	75
.....	542.28	63.59	196.90	27.70	268.84	.....	12.35	4.75	18,309.72	76
.....	600.00	125.26	203.90	.....	72.10	.....	23.77	154.55	19,955.29	77
.....	436.00	114.91	372.64	.....	857.20	.....	22.88	47.98	18,648.84	78
.....	240.00	70.00	113.10	9.00	499.82	98.00	36.10	1.10	12,571.96	79
.....	360.45	9.96	835.80	1.75	339.13	.....	8.13	17.34	22,320.22	80
.....	481.00	19.25	95.75	19.55	122.35	58.75	2.15	1.75	12,289.81	81
.....	.....	229.07	460.91	.....	.....	.....	12.25	349.57	24,226.87	82
.....	600.00	36.20	593.81	96.13	931.83	101.65	66.80	46.66	21,997.14	83
.....	210.00	.....	15.16	8.35	109.64	.....	2.50	24.75	12,131.82	84
.....	504.00	43.46	569.69	26.20	558.78	.....	21.55	11.30	40,928.11	85
.....	180.00	58.76	386.56	12.55	.....	16.00	1.50	41.55	5,711.81	86
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	87
.....	378.00	166.99	1,484.21	35.40	1,494.62	69.80	5.50	34.92	48,162.53	88
.....	737.83	52.97	1,919.36	39.75	.....	6.15	42.41	1,100.96	59,804.56	89
.....	243.76	36.80	404.75	.25	247.00	.....	10.18	5.65	11,505.10	90
.....	240.00	56.13	1,724.88	15.22	687.09	12.00	2.86	179.58	35,476.21	91
.....	.....	138.27	231.97	.....	721.11	.....	25.10	18.04	17,608.24	92
.....	300.00	37.68	152.79	29.48	423.65	40.10	11.20	128.70	16,622.66	93
.....	480.00	106.66	3,498.62	18.50	.....	.....	33.90	814.23	31,861.18	94
.....	240.00	26.90	128.38	30.00	675.91	28.88	5.66	4.80	14,347.86	95
.....	660.00	136.37	1,761.87	.....	731.92	.....	114.96	882.29	51,802.43	96
.....	.....	.....	.....	.....	.....	.....	.....	81.30	4,971.56	97
.....	325.75	117.40	54.74	13.70	.....	21.07	7.70	67.20	18,263.34	98
.....	300.00	44.17	211.28	.....	624.47	.....	8.50	82.83	17,227.29	99
.....	534.00	88.96	134.71	.....	742.48	.....	25.05	33.05	26,752.45	100
.....	.....	70.40	87.70	.....	655.91	.....	22.73	1.35	15,137.05	101
.....	137.50	18.10	14.41	3.00	.....	.....	4.40	2.70	2,674.83	102
.....	.....	123.35	170.09	.....	329.59	.....	8.55	132.22	19,886.95	103
.....	91.66	39.49	279.64	.....	76.80	12.34	4.05	8.58	10,869.30	104
.....	420.00	146.54	225.05	.....	217.68	.....	20.44	70.75	14,851.83	105
.....	360.00	50.45	76.81	.....	150.11	.....	12.90	5.64	13,927.98	106
.....	420.00	59.40	261.82	.....	96.40	.....	.....	42.43	15,774.49	107
.....	858.00	136.45	1,573.83	6.00	626.84	.....	11.40	784.20	34,205.28	108
.....	.....	.....	.....	.....	.....	.....	.....	.....	155.90	109
.....	538.67	37.97	465.08	21.01	454.81	46.13	2.85	11.50	21,411.92	110
.....	240.00	26.00	130.44	48.00	31.25	33.20	15.00	17.40	10,703.42	111
.....	.....	24.53	89.40	10.25	256.37	45.00	.....	13.00	8,938.79	112
.....	567.50	99.39	89.33	.....	240.00	.....	9.92	21.88	15,806.35	113
.....	.....	2.40	.....	.....	.....	.....	.....	.....	18.64	114
.....	.....	2.49	592.26	.....	.....	145.39	4.35	77.29	26,353.01	115
.....	361.80	74.95	61.92	22.15	1,076.88	49.96	4.55	80.83	12,959.55	116
.....	443.33	61.15	1,331.90	15.00	276.31	.....	2.40	213.84	33,681.33	117
.....	412.00	58.65	171.45	17.95	140.25	10.19	7.14	70.17	21,107.23	118
.....	360.00	152.75	770.79	13.45	.....	33.75	30.63	26.28	27,317.89	119
.....	267.75	162.80	848.68	6.96	.....	.....	.....	22.40	38,938.89	120
.....	747.00	218.76	951.12	4.05	23.20	.....	5.40	13.85	59,234.82	121
.....	24.00	75.26	568.18	.....	1,238.28	12.75	60.48	23.90	28,691.50	122
.....	360.00	38.33	292.81	.....	386.85	.....	20.98	92.29	19,866.70	123
.....	.....	.....	200.43	.....	.....	.....	4.50	5.20	9,882.43	124
.....	450.00	40.86	472.59	9.60	1,319.59	.....	27.55	1.00	50,728.37	125
.....	320.50	66.09	676.85	8.39	1,025.12	27.50	42.15	63.99	31,301.92	126
.....	480.00	274.86	932.22	.....	247.18	.....	22.72	249.30	35,762.72	127
.....	792.00	267.16	1,508.31	7.20	976.86	.....	73.33	156.82	48,199.26	128
.....	442.00	97.52	2,523.84	42.87	1,815.68	53.50	33.84	22.05	60,451.49	129
.....	12.00	12.00	43.74	.....	.....	.....	11.70	.10	9,174.60	130
.....	120.00	.30	244.82	.....	.....	.....	12.80	16.25	18,115.16	131
.....	570.00	87.92	304.50	18.25	1,431.55	.....	19.93	1.45	25,134.96	132
.....	.....	174.54	1,468.78	.....	11.15	.....	1.95	16.07	44,962.90	133
.....	420.00	203.63	213.86	.....	275.50	.....	42.08	4.00	22,808.03	134
.....	645.00	89.46	461.04	.....	457.86	.....	21.45	39.80	28,660.30	135
.....	197.50	43.95	192.58	4.30	372.02	74.29	17.10	31.75	12,437.58	136
.....	651.25	73.04	1,458.48	71.49	1,498.14	.....	25.53	237.95	73,575.38	137
.....	517.17	96.40	632.25	45.00	822.56	92.50	11.53	75.25	31,980.20	138
.....	216.00	141.79	257.49	39.00	534.20	54.63	.....	53.47	17,705.39	139
.....	361.20	77.15	163.62	.....	274.44	.....	9.85	90.79	18,109.59	140
.....	173.00	248.87	2,097.77	23.70	827.56	.....	.....	81.40	43,158.33	141
.....	240.00	127.53	593.64	7.00	326.48	86.00	12.50	132.98	10,970.97	142
.....	206.00	106.56	1,516.11	22.50	245.65	.....	5.20	2.50	36,110.06	143
.....	330.00	36.14	357.55	.....	200.68	.....	10.10	33.28	18,256.11	144
.....	321.00	72.41	17,472.07	38.40	900.00	27.50	.....	1,232.63	115,653.57	145
.....	76.95	37.71	1,398.73	2.00	604.75	40.00	1.40	83.46	48,576.76	146
.....	270.00	2.06	238.07	.....	.....	.....	6.75	1.80	14,520.08	147
.....	722.84	187.13	12,378.83	38.65	549.86	43.00	16.14	474.98	91,958.48	148
.....	541.00	85.55	422.67	.....	226.91	.....	11.48	97.37	21,053.33	149
.....	1.00	32.02	2,049.95	30.10	1,491.31	21.00	14.32	30.54	47,931.90	150
.....	4.65	5.55	206.59	19.30	70.84	38.16	4.52	221.15	9,376.92	151
.....	451.00	210.03	2,003.62	14.30	316.32	.....	.....	17.50	40,019.11	152
.....	390.00	43.38	835.93	3.36	1,015.07	44.60	18.75	3.00	26,347.48	153

FOREST SERVICE—Continued.

Classification of expenditures for the fiscal year ended June 30, 1915—Continued.

	Project.		Salaries.				Travel, station, and field expenses.	Equipment.		
			Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
				In Washington.	Out of Washington.					
	NATIONAL FORESTS—continued.	*Acres, net.*								
154	Siuslaw	529,705	$10,220.00		$25,719.62	$35,939.62	$3,948.04			$3,646.05
155	Snoqualmie	724,303	12,618.59		27,822 74	40,441.33	3,022.12			3,556.98
156	Sopris	596,900	11,166.66		3,988.35	15,155.01	726.66			1,517.17
157	Stanislaus	822,269	15,988.60		15,485.80	31,474.40	783.12			4,175.69
158	Sundance	144,922	3,288.31		3,576.84	6,865.15	197.63			340.22
159	Superior	813,860	10,713.88		7,904.02	18,617.90	423.61			1,716.18
160	Tahoe	561,317	20,695.00		18,024.57	38,719.57	2,053.59			2,584.29
161	Targhee	782,944	11,974.44		9,320.55	21,294.99	1,380.53			1,697.24
162	Teton	1,927,183	11,216.66		6,305.83	17,522.49	471.50			1,811.12
163	Toiyabe	1,907,983	5,850.00		3,937.69	9,787.69	585.93			923.96
164	Tongass	15,455,694	8,995.56		15,889.35	24,884.91	3,582.75			6,984.03
165	Tonto	1,998,144	12,584.70		6,466.02	19,050.72	2,239.03			1,728.31
166	Trinity	1,430,446	16,540.66		20,009.44	36,550.10	2,524.16			3,738.26
167	Tusayan	1,607,727	16,310.01		6,641.71	22,951.72	1,538.71			1,413.21
168	Uinta	995,757	14,139.17		2,000.67	16,139.84	961.91			1,073.85
169	Umatilla	499,093	7,565.00		3,093.50	10,658.50	289.70			845.56
170	Umpqua	969,558	11,148.33		13,934.23	25,082.56	1,191.04			3,888.60
171	Uncompahgre	791,173	13,646.67		4,168.19	17,814.86	575.84			1,034.06
172	Wallowa	994,314	14,470.55		11,398.85	25,869.40	2,672.31			1,496.67
173	Wasatch	612,928	13,259.18		16,240.59	29,499.77	1,192.62			3,041.90
174	Washakie	387,569	5,991.67		1,513.31	7,504.98	219.06			287.45
175	Washington	1,453,853	8,975.56		13,846.76	22,822.32	720.61			1,192.72
176	Weiser	563,640	10,524.99		8,780.08	19,305.07	565.66			895.71
177	Wenaha	736,963	7,400.00		6,065.32	13,465.32	698.97			925.80
178	Wenatchee	657,644	11,545.57		26,224.88	37,770.45	1,527.90			2,166.03
179	White River	848,875	10,000.00		6,027.55	16,027.55	1,445.70			1,334.00
180	Whitman	877,596	14,173.33		8,784.03	22,957.36	1,105.65			2,800.27
181	Wichita	61,480	2,560.00		2,142.49	4,702.49	294.68			1,863.73
182	Wyoming	899,980	11,016.41		6,069.80	17,086.21	807.38			1,860.22
183	New forests	1,285,113	8,271.49		58,258.94	66,530.43	3,358.51			5,631.98
	Total, national forests		1,793,355.44		1,867,345.99	3,660,701.43	199,699.04			368,739.51
	Grand total		2,274,228.08	$177,060.51	[1] 2,410,244.06	4,861,532.65	367,354.00	$21,584.19	$12,073.99	480,082.91

[1] Includes wages and subsistence of temporary employees.

PROJECT STATEMENTS.

Washington Office.

Total expenditures		$631,215.57
Outstanding liabilities, Aug. 31		9,951.54
Total allotment		641,167.11
Distributed among the several subactivities as follows:		
Forester's office: General administrative supervision and control of all activities in the Washington office, Forest Products Laboratory, district headquarters, and 162 national forests, and administration of land purchased under the Weeks law.		99,954.75
Operation: Administrative and supervisory work done in or directed by this office		187,148.94
Silviculture: Administrative, investigative, and State and Federal cooperative work done in or directed by this office		134,070.84
Grazing: Administrative and investigative work done in or directed by this office		25,194.74
Lands: Administrative work done in or directed by this office		38,921.42
Products: Administrative and investigative work done in or directed by this office:		
Industrial investigation	$24,131.18	
Forest Products Laboratory, Madison, Wis.	131,745.24	
		155,876.42
Total		641,167.11

District Headquarters.

District 1 (Missoula, Mont.).

Total expenditures		$202,593.58
Outstanding liabilities, Aug. 31		10,828.51
Total allotment		213,422.09
Distributed among the several subactivities as follows:		
District forester's office: General supervision of 26 national forests, aggregating 22,813,081 acres		21,370.59
Operation: Administrative and supervisory work done in or directed by this office (supplementing the part time and expenses of the national forest force)		69,870.92
Silviculture: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)		44,433.13
Grazing: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)		6,422.08
Lands: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)		62,795.20
Products: Administrative and investigative work done in or directed by this office		8,530.17
Total		213,422.09

FOREST SERVICE—Continued.

Classification of expenditures for the fiscal year ended June 30, 1915—Continued.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
.....	$30.00	$76.67	$887.94	.....	.....	$6.00	$3.17	$119.58	$44,657.07	154
.....	.....	294.13	808.45	$4.60	$829.67	.....	19.20	14.35	48,990.83	155
.....	287.63	162.58	350.05	.....	717.84	.....	27.50	32.75	18,977.19	156
.....	507.00	40.03	1,579.66	38.64	1,158.35	19.50	.....	126.34	39,902.73	157
.....	.....	40.70	282.30	.....	192.47	.....	6.21	6.50	7,931.18	158
.....	309.00	43.50	619.92	.....	103.66	49.24	11.48	39.95	21,934.44	159
.....	613.50	137.98	2,894.05	30.91	923.77	43.45	16.19	147.93	48,165.23	160
.....	355.00	134.00	490.10	45.80	537.20	90.14	13.38	60.20	26,098.58	161
.....	72.50	84.00	1,291.52	.....	169.10	.....	16.06	.60	21,438.89	162
.....	244.00	105.10	80.40	97.70	889.62	49.00	9.75	146.32	12,919.47	163
.....	660.00	57.37	251.72	90.00	.....	.....	41.15	55.95	36,607.88	164
.....	.....	15.65	705.26	9.00	719.79	39.25	7.32	24.50	24,538.83	165
.....	462.25	107.01	1,116.25	82.65	1,564.80	79.00	15.75	321.68	46,561.91	166
.....	324.00	62.00	628.63	141.80	1,331.66	59.23	12.32	128.02	28,591.30	167
.....	361.75	33.95	252.48	.....	590.00	.....	28.92	5.00	19,447.70	168
.....	300.00	46.79	312.01	.....	126.96	30.22	11.15	.40	12,621.29	169
.....	444.00	191.29	1,650.08	12.37	278.02	.....	2.25	33.95	32,774.16	170
.....	489.00	69.28	278.55	.....	808.43	.....	31.19	151.51	21,252.72	171
.....	360.00	67.44	703.25	.....	254.61	.....	11.60	70.82	31,506.10	172
.....	48.50	110.80	509.87	.....	719.16	.....	36.10	41.48	35,200.20	173
.....	.....	118.62	118.19	.....	218.70	.....	8.35	10.95	8,486.30	174
.....	.....	101.92	761.33	.....	.....	.....	8.30	13.75	25,620.95	175
.....	304.00	65.60	122.55	7.10	229.04	.....	10.85	17.45	21,523.03	176
.....	.....	52.13	83.73	.....	.....	.....	9.90	13.65	15,249.50	177
.....	300.00	120.39	1,321.84	30.20	217.82	55.00	.....	21.75	43,531.38	178
.....	406.11	115.47	209.79	45.00	199.14	.....	22.08	26.70	19,831.54	179
.....	290.00	43.02	532.94	.....	246.99	63.75	17.45	8.35	28,065.78	180
.....	.....	20.35	.....	.....	60.00	.....	.....	.....	6,941.25	181
.....	277.00	96.20	239.51	20.20	186.78	74.20	17.53	321.65	20,986.88	182
.....	1,725.13	649.40	1,233.24	105.10	422.78	121.40	51.15	728.33	80,557.45	183
.....	51,738.69	15,592.00	182,947.83	2,478.86	74,954.24	3,292.17	2,970.64	20,329.46	4,583,443.87	
$36,641.59	82,876.22	28,592.18	200,819.45	3,404.95	75,329.80	4,187.03	[2] 4,548.27	45,043.25	6,224,070.48	

[2] Advertising.

District 2 (Denver, Colo.).

Total expenditures	$113,398.37
Outstanding liabilities, Aug. 31	4,635.82
Total allotment	118,034.19
Distributed among the several subactivities as follows:	
District forester's office: General supervision of 33 national forests, aggregating 20,744,058 acres	18,883.85
Operation: Administrative and supervisory work done in or directed by this office (supplementing the part time and expenses of the national forest force)	39,867.66
Silviculture: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	15,927.69
Grazing: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	6,679.82
Lands: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	36,675.17
Total	118,034.19

District 3 (Albuquerque, N. Mex.).

Total expenditures	$95,356.77
Outstanding liabilities, Aug 31	1,648.38
Total allotment	97,005.15
Distributed among the several subactivities as follows:	
District forester's office: General supervision of 17 national forests, aggregating 19,079,579 acres	14,031.78
Operation: Administrative and supervisory work done in or directed by this office (supplementing the part time and expenses of the national forest force)	35,573.61
Silviculture: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	17,095.86
Grazing: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	13,317.28
Lands: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	16,986.62
Total	97,005.15

District 4 (Ogden, Utah).

Total expenditures	$100,873.80
Outstanding liabilities, Aug. 31	2,005.05
Total allotment	102,878.85
Distributed among the several subactivities as follows:	
District forester's office: General supervision of 34 national forests, aggregating 28,574,468 acres	18,921.54
Operation: Administrative and supervisory work done in or directed by this office (supplementing the part time and expenses of the national forest force)	35,229.10
Silviculture: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	16,918.07
Grazing: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	10,982.70
Lands: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	19,913.25
Products: Administrative and investigative work done in or directed by this office	914.19
Total	102,878.85

District 5 (San Francisco, Cal.).

Total expenditures	$119,415.92
Outstanding liabilities, Aug. 31	1,547.85
Total allotment	120,963.77
Distributed among the several subactivities as follows:	
District forester's office: General supervision of 19 national forests, aggregating 20,021,457 acres	31,669.55
Operation: Administrative and supervisory work done in or directed by this office (supplementing the part time and expenses of the national forest force)	42,419.38
Silviculture: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	$19,400.89
Grazing: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	4,770.52
Lands: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	12,886.73
Products: Administrative and investigative work done in or directed by this office	9,816.70
Total	120,963.77

District 6 (Portland, Oreg.).

Total expenditures	$136,050.49
Outstanding liabilities, Aug. 31	2,138.53
Total allotment	138,189.02
Distributed among the several subactivities as follows:	
District forester's office: General supervision of 28 national forests, aggregating 49,977,637 acres	15,837.59
Operation: Administrative and supervisory work done in or directed by this office (supplementing the part time and expenses of the national forest force)	32,175.83
Silviculture: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	52,032.07
Grazing: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	4,931.35
Lands: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	20,784.14
Products: Administrative and investigative work done in or directed by this office	12,428.04
Total	138,189.02

BUREAU OF CHEMISTRY.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Administration	$44,535.94	$15,165.94		$59,701.88	$848.84	$107.00	$421.79	$695.30
2	Investigations in agricultural chemistry.	5,815.90	33,904.66	$2,609.67	42,330.23	2,752.82	2,030.10	120.95	269.75
3	Collaboration with other departments.		6,550.00	2,497.08	9,047.08	2,542.16	769.78	77.40	
4	Testing food products for export.			4,080.00	4,080.00		40.45		
5	Poultry and egg investigations	2,765.00		25,893.52	28,658.52	9,045.50	814.33	272.31	1,733.52
6	Fish investigations	921.67		5,666.39	6,588.06	2,809.19	453.85	27.26	143.71
7	Oyster and other shellfish investigations.		1,560.00	877.33	2,437.33	1,182.16	30.75		
8	Biological investigations of food and drug products.		3,335.00	566.66	3,901.66	246.28	619.60		
9	Naval stores investigations			1,038.33	1,038.33	1,309.38	234.00		2.25
10	Enforcement of the food and drugs act.	223,889.40	217,423.06	164,937.59	606,250.05	61,190.60	2,825.04	2,767.40	5,348.41
	Total	277,927.91	277,938.66	208,166.57	764,033.14	81,926.93	7,924.90	3,687.11	8,192.94

District 7 (Washington, D. C.).

Total expenditures	$25,349.32
Outstanding liabilities, Aug. 31	1,860.03
Total allotment	27,209.35

Distributed among the several subactivities as follows:

District forester's office: General supervision of 5 national forests, aggregating 1,563,000 acres, and 16 areas purchased or approved for purchase under the Weeks law and aggregating 1,285,113 acres	22,800.55
Operation: Administrative and supervisory work done in or directed by this office (supplementing the part time and expenses of the national forest force)	930.00
Silviculture: Administrative and investigative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	1,478.80
Lands: Administrative and investigative gative work done in or directed by this office (supplementing the part time and expenses of the national forest force)	2,000.00
Total	27,209.35

SUPPLY DEPOT, OGDEN, UTAH.

Total expenditures	$114,166.21
Outstanding liabilities, Aug. 31	7,342.60
Total allotment	121,508.81
Purchase and distribution of supplies for the whole service outside of the Washington office	121,508.81

PROPERTY AUDITOR, OGDEN, UTAH.

Total expenditures	$7,936.91
Record supervision and inspection of all property of the Forest Service	7,936.91

EXPERIMENT STATIONS.

Total expenditures	$51,217.64
Outstanding liabilities, Aug 31	1,093.72
Total allotment	52,311.36

Distributed among the several stations as follows:

Experiment stations:	
District 1, Priest River, Priest River, Idaho	$10,956.60
District 2, Fremont, Manitou, Colo.	3,819.74
District 2, Wagon Wheel Gap, Wagon Wheel Gap, Colo.	3,124.92
District 3, Fort Valley, Flagstaff, Ariz.	8,361.03
District 4, Utah, Ephraim, Utah	12,620.27
District 5, Converse, Seven Oaks, Redlands, Cal.	2,779.28
District 5, Feather River, Quincy, Cal.	8,659.50
District 6, Wind River, Carson, Wash.	1,990.02
Total	52,311.36
Total, Forest Service, exclusive of national forests	1,640,626.61

THE NATIONAL FORESTS.

[162 national forests, comprising a net area of 164,058,393 acres.]

Total expenditures	$4,558,779.70
Outstanding liabilities, Aug. 31	24,664.17
Total allotment	4,583,443.87

Distributed among the several subactivities as follows:

Operation	3,546,140.80
Silviculture	501,808.64
Lands	323,005.45
Grazing	211,235.25
Products	1,253.73
Total	4,583,443.87

RECEIPTS FROM NATIONAL FOREST RESOURCES.

Timber sale	$1,164,008.29
Timber settlement	3,180.89
Timber trespass	7,284.17
Grazing	1,124,677.44
Grazing trespass	5,817.56
Fire trespass	660.60
Occupancy trespass	238.31
Special use	77,819.01
Water power	88,950.44
Turpentine sale	8,771.37
Turpentine trespass	61.27
Total	2,481,469.35

BUREAU OF CHEMISTRY.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$61.05	.....	$0.57	$1.70	.....	.....	.....	.....	$2,226.63	$64,064.76	1
3.70	$960.00	68.28	708.66	$97.85	.....	.....	.....	7,304.82	56,647.16	2
27.00	.....	38.43	60.76	.....	.....	.....	.....	478.02	13,040.63	3
.....	.....	.....	.....	.....	.....	.....	.....	53.63	4,174.08	4
13.07	3,048.33	168.12	172.39	180.99	.....	.....	.....	2,533.21	46,640.29	5
2.92	946.00	19.02	95.49	122.98	.....	.....	.....	1,042.17	12,250.65	6
.....	230.00	18.12	140.95	27.55	.....	.....	.....	738.42	4,805.28	7
.....	.....	.....	9.07	.....	.....	.....	.....	502.77	5,279.38	8
.10	.....	3.50	81.04	.....	.....	.....	.....	731.70	3,400.30	9
2,437.43	14,084.55	4,617.50	4,676.00	1,853.58	.....	.....	.....	40,479.95	746,530.51	10
2,545.27	19,268.88	4,933.54	5,946.06	2,282.95	.....	.....	.....	56,091.32	956,833.04	

PROJECT STATEMENTS.

Administration.

Total expenditures as above	$64,064.76
Outstanding liabilities, Aug. 31 (estimated)	847.62
Total allotment	64,912.38

General administration of the research, regulatory, and business affairs of the bureau, including the clerical work connected with the keeping of accounts, filing of correspondence, and the editorial work on manuscripts for publication 64,912.38

Investigations in Agricultural Chemistry.

Total expenditures as above	$56,647.16
Outstanding liabilities, Aug. 31 (estimated)	1,941.48
Unexpended balance (estimated)	2,127.26
Total allotment	60,715.90

Distributed among the several subactivities as follows:

Plant biochemical studies: Investigations of the effect of environment on the composition of crops and plants and studies on mill products, bread making, etc 9,614.91

Leather and tanning investigations: The object of this work is to investigate the wearing quality of sole leather; study means for the profitable utilization of tannery and leather wastes; investigate the composition of leather and tanning and finishing materials; study the deterioration of upper, bookbinding, and other light leathers; develop methods for tanning sole and harness leather on a small scale 5,995.00

Paper investigations: Under this project investigations are conducted to demonstrate the more rational and economic use of paper, in order to conserve paper-making materials; to effect economies in and aid in the intelligent manufacture of paper, and thus conserve raw materials for more important uses; to determine the factors which control the serviceability, suitability, and durability of papers for each of the purposes for which they are used; to improve the quality of papers; to aid in furnishing a basis for the intelligent interpretation of the characteristics of paper; to obtain data upon which to base rational and definite specifications for paper; and to improve methods, apparatus, and conditions of paper testing with a view to obtain more accurate, uniform, and useful results therein 2,390.00

Wood distillation: Improvement of chemical processes for the utilization of waste wood and wood products, and determination of the value of different species for distillation purposes and the best means of profitably utilizing the products 7,194.47

Citrus by-products investigations: Development of commercial methods for the utilization of cull citrus fruits, especially for the purpose of increasing the quantity and quality of the yield of essential oils from the peel and of the juice from the fruit; and study of methods for the extraction of other by-products from citrus fruits 6,818.19

Carbohydrate investigations: Investigations in the manufacture of sorghum sirup; a study of the manufacture of cane sugar, sirup, and molasses 737.40

Insecticide and fungicide investigations: Study of the supposed injury of fruit trees by poisonous sprays through the medium of the soil; investigation of injury to foliage by spraying; and a study having in view the efficient destruction of fly larvæ in horse manure $1,347.80

Fruit and vegetable utilization: The development on a large scale of methods for drying surplus and cull potatoes and the manufacture of products therefrom; development of methods of making and preserving apple cider and for the profitable utilization of apple pomace; development of new processes for the utilization of other fruit and vegetable products 16,215.37

Cattle food and grain investigations: The securing of authentic information relative to forage crops growing naturally on ranges; determination of the effects of storage and transportation on the composition and value of corn and other grains; and the utilization as cattle foods of materials which are now waste products 955.50

Miscellaneous analyses of samples of plants and plant products submitted by the Bureau of Plant Industry and other bureaus of the department, including nitrogen determinations 7,320.00

Total 58,588.64

Collaboration with Other Departments.

Total expenditures as above	$13,040.63
Outstanding liabilities, Aug. 31 (estimated)	79.95
Unexpended balance (estimated)	879.42
Total allotment	14,000.00

Distributed among the several subactivities as follows:

Miscellaneous tests for other departments: This project has for its object the rendering of assistance to the Post Office Department in preventing the use of the mails for fraudulent purposes, with special reference to drugs and medicines; the testing of contract supplies; work in the preparation of specifications for certain products, including foods and drugs, for which the Bureau of Standards is not equipped; assisting the Treasury Department in classifying various products under the tariff act, and making chemical analyses for other departments upon request 6,545.45

Grain dust explosions: Study of the physical and chemical properties of grain and of cereal dusts which occur in the thrashing, storing, handling, and milling of wheat and other cereals, in order to determine the cause of explosions in thrashers and mills and to secure knowledge that will lead to the prevention of such explosions 6,575.13

Total 13,120.58

Testing Food Products for Export.

Total expenditures as above	$4,174.08
Outstanding liabilities, Aug. 31 (estimated)	55.79
Unexpended balance (estimated)	50.13
Total allotment	4,280.00

This project involves the testing of samples of food products for export upon request of exporters, in order to determine whether the goods will meet the requirements of the country to which consigned 4,229.87

Poultry and Egg Investigations.

Total expenditures as above	$46,640.29
Outstanding liabilities, Aug. 31 (estimated)	2,178.87
Unexpended balance (estimated)	3,945.84
Total allotment	52,765.00

This project includes the dissemination of information to shippers, carriers, etc., in connection with the handling of poultry and eggs; a study of the breakage of eggs in transit; investigation of the preparation of frozen and dried eggs; poultry fleshing studies; and research work to discover fundamental scientific facts bearing on the preservation of the quality of poultry and eggs and the prevention of decay 48,819.16

Fish Investigations.

Total expenditures as above	$12,250.65
Outstanding liabilities, Aug. 31 (estimated)	1,343.80
Unexpended balance (estimated)	827.22
Total allotment	14,421.67

Study of the methods of transporting and handling fish; study of the cold storage of fish and the utilization of by-products of the fish industry 13,594.45

Oyster and Other Shellfish Investigations.

Total expenditures as above	$4,805.28
Outstanding liabilities, Aug. 31 (estimated)	7.55
Unexpended balance (estimated)	187.17
Total allotment	5,000.00

Investigations regarding the sanitary inspection of shellfish areas and the handling and shipping of shellfish; study of the conservation of the by-products of the oyster industry; investigations of the sanitary character of water in relation to the sanitary condition of shellfish 4,812.83

Biological Investigations of Food and Drug Products.

Total expenditures as above	$5,279.38
Outstanding liabilities, Aug. 31 (estimated)	904.14
Unexpended balance (estimated)	2,816.48
Total allotment	9,000.00

The object of this work is to investigate the biological effects of food and drug products upon health; to determine the chemical composition of proteins as a basis for ascertaining their food value; to study nitrogen distribution in various cereals and other feeding stuffs; includes a study of the utilization of hydrogenated whale oil 6,183.52

Naval Stores Investigations.

Total expenditures as above	$3,400.30
Outstanding liabilities, Aug. 31 (estimated)	497.62
Unexpended balance (estimated)	1,102.08
Total allotment	5,000.00

The preparation of definite and permanent type samples as a basis for trading and to insure fair, uniform, and simple grading of naval stores 3,897.92

Enforcement of the Food and Drugs Act.

Total expenditures as above	$746,530.51
Outstanding liabilities, Aug. 31 (estimated)	15,051.14
Unexpended balance (estimated)	90,904.40
Total allotment	852,486.05

Distributed among the several subactivities as follows:

Administration: General administrative work in connection with the enforcement of the food and drugs act, including the preparation of evidence for presentation in cases under this act. Fees paid expert witnesses are also included under this head	44,420.62
State cooperative food and drug control: Collaboration with State food and drug officials to more efficiently enforce the food and drugs act	11,376.51
Food control: Review of cases involving violations of the food and drugs act, including the making of analyses and check analyses, preparing correspondence, and compiling evidence for prosecution of same	91,667.55
Drug control: Procedure same as in preceding project	31,416.87
Field food and drug inspection: This covers (1) the work of the inspectors and (2) the supervision and maintenance of branch laboratories. The inspectors travel throughout their respective territory to collect samples, inspect factories, and secure data bearing on food and drug industries. The district headquarters, through their branch laboratories, hold hearings, conduct correspondence, prepare cases, make chemical and other examinations of food and drug products, and study methods of analysis to detect new adulterants. The cost of the work is distributed as follows:	
Inspection work	130,284.11
Branch laboratories—	
Eastern district—	
Boston laboratory	19,585.66
Buffalo laboratory	7,506.53
New York laboratory	74,609.07
Philadelphia laboratory	10,378.62
Porto Rico laboratory	5,277.74
Savannah laboratory	8,552.84
Washington laboratory (including district headquarters)	31,250.50
Central district—	
Chicago laboratory (including district headquarters)	59,535.45
Cincinnati laboratory	10,982.29
New Orleans laboratory	8,198.50
St. Louis laboratory	9,163.85
St. Paul laboratory	9,587.97
Western district—	
Denver laboratory	15,103.72
San Francisco laboratory (including district headquarters)	26,971.05
Seattle laboratory	11,475.02
Honolulu laboratory	4,119.99
Food investigations: Study of methods of analysis of food products; investigations to determine the composition of foods; study of trade practices in reference to various food products, and other special investigations relating to the food industry	53,466.70
Physiochemical investigations: Determination of the physical and chemical characteristics of carbonated liquids; study of the reactions in vegetable, fruit, and animal juices; determination of the chemistry and manufacture of baking powders	3,462.27

Microbiological investigations: Development of bacteriological standards of foods and drugs; determination of the cause of deterioration in food products; study of the bacteriological factors in the deterioration of forage and feeding stuffs; classification of the bacteria occurring in food products $4,653.96

Microchemical investigations: Development of microscopical methods of analysis of food and drug products; studies in the microscopical detection of decomposition in tomato products 3,540.00

Water investigations: Study of methods of water analysis; investigation of the sanitary bottling of water; examination of miscellaneous waters and related products 4,000.00

Pharmacognosy investigations: Determination of the chemical, physiological, and morphological characteristics of plants and drugs; devising new and improved methods of analysis $6,391.72

Cattle food and grain investigations: Determination of standards for malt sprouts, feed barley, mill oats, cottonseed meal, and other cattle foods; study of the effects of storage and transportation on the composition of corn; study of the utilization of by-products in the manufacture of cattle foods. 3,500.00

Organic chemical investigations: Isolation, identification, and determination of amino acids in foods; isolation and identification of nonsugars, organic acids, and alcohols found in food products; and study of methods of analysis 8,558.73

BUREAU OF SOILS.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Administration	$35,575.23	$431.25		$36,006.48	$2.43		$497.89	$417.52
2	Soil chemical investigations	847.22	15,363.50	$350.00	16,560.72	657.16	$3,851.35	795.50	152.91
3	Soil physical investigations	672.78	10,716.67	164.99	11,554.44		1,975.42	239.66	232.11
4	Soil-fertility investigations		26,101.50		26,101.50	146.52	2,751.57	48.70	17.02
5	Investigations of fertilizer resources.	420.00	17,095.56	1,000.00	18,515.56	2,774.27	10,786.85	125.81	28.98
6	Soil-survey investigations	22,815.55	11,595.56	86,510.42	120,921.53	69,641.33	492.69	739.40	750.25
7	Classification of agricultural lands in national forests.		1,113.44	6,984.33	8,097.77	3,073.76			
	Total	60,330.78	82,417.48	95,009.74	237,758.00	76,295.47	19,857.88	2,446.96	1,598.79

PROJECT STATEMENTS.

Administration.

Total expenditures as above $38,615.60
Outstanding liabilities, Aug. 31 (estimated) .. 48.40
Unexpended balance (estimated) 600.45

Total allotment 39,264.45

General direction and supervision of the various investigational activities of the bureau, including the offices of chief of bureau and chief clerk, and accounts, editorial, supply, and files and records sections 38,664.00

Soil Chemical Investigations.

Total expenditures as above $22,025.99
Outstanding liabilities, Aug. 31 (estimated) .. 336.77
Unexpended balance (estimated) 134.46

Total allotment 22,497.22

Distributed among the several subactivities as follows:

Supervision: Planning, directing, and supervising investigations in soil chemistry and the routine chemical laboratory work 3,676.60

Mineral nature of agriculturally important American soils: Many soils have been examined and many of the minerals present determined. Mineralogical examinations have thrown much light on the chemical composition of soils $2,359.06

Absorption by soils: The influence of one soluble salt on the absorption of another has been studied. The presence of one alters the absorption of another. This effect has been investigated in its relation to the absorption of fertilizer salts 1,946.01

Lime-phosphate investigations: The nature of the solid phosphates of lime, magnesia, and iron in contact with free solutions have been determined and the similar problem in relation to soil water investigated. Analytical methods have been investigated and improved in ways best suited for this work, although not entirely perfected 1,372.11

Inorganic composition of soils: Soils of many of the principal soil types in the United States have been analyzed for all constituents and a considerably larger number of samples analyzed for the common elements. Most of the rarer elements were present in all the soils examined, although cæsium was found in only one soil and molybdenum in two. Results have been published in Department Bulletin 122 .... 1,793.91

Ash composition of important crop plants: Analytical methods have been studied and improved. Samples of plants have been collected from some of the principal type soils and analyses of the ashes completed for many of these 660.85

Pharmacological investigations: Study of the physiological action of various substances, such as caffein, alcohol, oil of chenopodium, tin, zinc, tartrates, citrates, turpentine, ergot, dyes, etc., to determine their effect on health when contained in food or drug products $13,557.72

Carbohydrate investigations: Investigation of maple products; chemical investigations of pure and adulterated honey; study of the manufacture of candy and of fruit sirups, jams, preserves, jellies, and marmalades; preparation of pure carbohydrates; and development of methods of analysis for carbohydrates 17,000.00

Dairy investigations: Determination of the best method for estimating the total solids of evaporated milk in milk-condensing factories under factory conditions; devising methods for the detection of alkali used in the manufacture of butter; study of methods for detecting the watering of milk $3,000.00

Beverage investigations: Investigation of the composition of various alcoholic and non-alcoholic beverages; study of methods of analysis of distilled liquors; study of the so-called wines prepared from fruit and vegetables other than the grape 5,370.12

Drug investigations: Study of methods of analysis of drug products; investigating permissible variations in drug products and the elimination of inert and objectionable material in crude drug products 13,615.97

Total 761,581.65

BUREAU OF SOILS.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$1,091.15	.....	$164.79	$361.77	.....	.....	.....	.....	$73.57	$38,615.60	1
6.35	.....	.....	.....	.....	.....	.....	.....	2.00	22,025.99	2
37.86	.....	.....	.....	.....	.....	.....	.....	51.15	14,090.64	3
10.41	.....	.....	.....	.....	.....	.....	[1] $2,999.73	565.30	32,640.75	4
135.00	.....	.....	.....	.....	.....	.....	[2] 11,998.05	20.00	44,384.52	5
512.91	.....	.....	.....	.....	.....	.....	.....	433.28	193,491.39	6
.....	.....	.....	.....	.....	.....	.....	.....	.....	11,171.53	7
1,793.68	.....	164.79	361.77	.....	.....	.....	14,997.78	1,145.30	356,420.42	

[1] Structure and parts.

[2] Structure and parts, $4,998.05; printing, $7,000.

Hydrolytic decomposition of soil-forming minerals: The method for subjecting minerals to electrical endosmose has been investigated. Data collected from solutions yielded by important soil minerals under variations corresponding to the conditions in the soil have led to the development of a rational theory of the function of the soil solution. Experiments have been started to study the formation of minerals in the soil. $1,566.19

Routine chemical laboratory: Analytical data have been provided for various subactivities of the bureau and outside institutions.. 5,317.83

Methods of determining nitrogen in soils and fertilizers: Comparison has been made of the different methods in use, and a critical examination of these methods is in progress to determine the best one or to develop a new method 750.10

Significance of analytical data for soil productivity: Literature on the subject has been examined and data collected 668.02

Liming of soils: The effect of adding lime to a soil has been studied, especially as influencing the absorption of soluble fertilizer salts by the soil. Definite results are not yet ready for announcement 708.85

Methods for determining phosphoric acid in soils and fertilizers: A critical study has been made of analytical methods for phosphoric acid 809.17

Rapid-conducting apparatus: An effort was made to produce a rapid conducting apparatus, but experiments did not indicate the practicability of the instrument projected $734.06

Total 22,362.76

Soil Physical Investigations.

Total expenditures as above $14,090.64
Outstanding liabilities, Aug. 31 (estimated).. 1,830.84
Unexpended balance (estimated) 16.30

Total allotment 15,937.78

Distributed among the several subactivities as follows:

Supervision: Planning, directing, and supervising the physical laboratory investigations and the routine physical laboratory work 3,502.78

Designing, construction, and standardization of instruments: Assistance rendered other activities and special pieces of apparatus constructed 1,668.68

Mechanical analysis of soils: Mechanical analyses of all samples of soil collected by the soil survey made and data furnished for other activities 2,719.70

Soil pressures: Efforts have been made to develop a method for measuring stresses induced in soils by changing moisture content, and large stresses have been recorded in certain types of soil $367.36

Translocation of soil particles: The changes in relative positions of soil particles have been observed, and long-time experiments are in progress to secure quantitative data on the rate of movement of the soil particles.. 103.33

Soil erosion: Soils subject to erosion have been examined in the field and laboratory and remedial and preventive measures best suited to various localities studied..... 1,733.64

Movement of the soil solution: The movement of the soil solution between soils of different moisture content has been studied. A new method for determining the critical moisture content of soils has been studied in relation to other methods..... 1,518.63

Soil hygrometer: Efforts have been made to develop an instrument based on some physical property of the soil. A new method gives promise of success..... 495.27

Absorption by soils: A study has been made of the absorption by soils of water vapor and various soluble salts and of the effect upon other physical properties of the soil.. 1,301.69

Soil temperatures: The influence on soil temperatures by moisture content and texture has been investigated; other factors affecting temperature of soils studied..... 1,449.73

Soil aeration: Investigation has been made of the composition of soil atmosphere, the absorption of carbon dioxide, and the movement of soil atmosphere..... 1,060.67

Total..... 15,921.48

Soil-Fertility Investigations.

Total expenditures as above.....	$32,640.75
Outstanding liabilities, Aug. 31 (estimated) .	11.59
Unexpended balance (estimated).....	47.66
Total allotment.....	32,700.00

Distributed among the several subactivities as follows:

Maintenance of soil fertility: Study of problems in the management and upbuilding of specific soil types, the best systems of rotation, and the effect of fertilizers. The work includes laboratory investigations on the composition of humus. Information has been disseminated regarding specific soil types and their management. The chemical nature of humus has been determined and many substances isolated and identified..... 2,475.87

Causes of unproductive soils: Study of organic substances causing infertility, such as result in the failure of specific crops, of orchards, in die-back in citrus groves, etc.; several harmful substances isolated and identified..... 5,659.56

Transformation and formation of soil humus by biochemical factors: Study of the changes in soil organic matter and the formation of organic compounds by microorganisms and higher plants. Organic chemical compounds have been obtained from molds and soils identical in composition and the results applied to the formation of humus..... 6,543.86

Origin of organic constituents in soils: Study of the chemical transformation of organic matter in soils which result in the formation of the constituents isolated from soils. Organic matter added to soils has been found to break down along definite lines, yielding compounds some of which had previously been isolated from field soils... $5,411.24

Means for improvement of unproductive soils: Determination of the fertilizer and lime requirements of soils, the action of compounds isolated from soils, and the effect of fertilizers on these; information disseminated regarding specific soils, and the properties of a considerable number of compounds ascertained..... 4,055.74

Effect of fertilizers and soil amendments: Study of the various soil factors as influenced by fertilizers and soil amendments, such as lime, manganese, etc., in the field and with different crops; study of the effect of known organic soil constituents under field conditions and the influence of fertilizers and soil treatments on their action. The effect of many fertilizers and soil amendments on soils has been ascertained and results published; the effect of soil aldehydes on various crops under field conditions ascertained..... 5,506.34

Construction of laboratory greenhouse at Arlington Farm, Va..... 2,999.73

Total..... 32,652.34

Investigations of Fertilizer Resources.

Total expenditures as above.....	$44,384.52
Outstanding liabilities, Aug. 31 (estimated)..	148.16
Unexpended balance (estimated).....	87.32
Total allotment.....	44,620.00

Distributed among the several subactivities as follows:

Supervision: Planning, directing, and supervising investigations of fertilizer resources of the United States..... 3,250.00

Extraction of potassium salts from kelp: Laboratory work and observations of work on a semicommercial scale by private agencies shows extraction on a commercial scale probably practicable..... 432.74

Effect of harvesting and other factors on the growth of kelp: Study of the technical results of cutting on kelp. In general, harvesting under certain restrictions improves stand..... 242.40

Maps and reports of kelp beds on the Pacific coast: Printing and publishing of 3,000 copies of Report 100, Office of the Secretary, entitled "Potash from Kelp," which deals with the location and extent of kelp beds along the Pacific coast..... 7,000.00

Fixation of atmospheric nitrogen: Small-scale laboratory experiments indicate that more efficient practice can be obtained. Larger-sized experiments are needed for guidance in the improvement of commercial practice. Equipment for large-size experiments has been designed and partially installed..... 8,235.67

Potash from feldspar: The extraction of potash from feldspar has been shown to be technically feasible by several types of processes; sale of by-products necessary to commercial development found to be of doubtful practicability..... 1,631.80

Extraction of phosphoric acid from natural phosphates: The extraction of phosphoric acid is feasible by two general methods of possible commercial development; installation of apparatus for study of economy of processes well advanced $4,465.42

Phosphate industry of the United States: Up-to-date information of progress in phosphate mining in Florida, South Carolina, Tennessee, Utah, Wyoming, and Montana has been gathered, extent of fields reestimated, mining wastage studied, and improvements in preparation, for use of farmers and manufacturers, suggested 4,226.33

Phosphate deposits in Virginia: Extent of field studied and character of product investigated with regard to its availability as a source of commercial fertilizer, in cooperation with the Geological Survey of Virginia 1,132.82

Concentration of low-grade phosphates: Progress has been made in studying methods of utilizing the present wastage at the mine 1,023.94

Production of raw materials in the United States for fertilizer manufacture: Detailed data have been accumulated and summarized for the principal fertilizer raw products when such information was not available from other Federal agencies 173.00

Fertilizer value of garbage and city wastes: Field and laboratory investigations of methods of disposal in cities of the United States of garbage, dead animals, etc., have been made with reference to the utilization of such materials as fertilizers. Work is in progress, including a study of garbage disposal in Washington, D. C., in cooperation with the municipal authorities, but results are not yet ready for publication ... 5,597.10

Manufacture of sulphuric acid and acid phosphates: Commercial methods studied and suggestions for improvement published ... 1,159.48

New method for manufacturing sulphuric acid: A proposed method of improved efficiency has been studied in the laboratory and the results published 963.93

Construction of laboratory for furnace work: Building at Arlington Farm has been finished and apparatus partially installed 4,998.05

Total 44,532.68

Soil-Survey Investigations.

Total expenditures as above	$193,491.39
Outstanding liabilities, Aug. 31 (estimated)	14.35
Unexpended balance (estimated)	1,109.81
Total allotment	194,615.55

Distributed among the several subactivities as follows:

Supervision: General direction and supervision of field activities and work at headquarters in connection with soil-survey investigations, including correspondence, compilation of field reports, assignments of the field force, etc. 12,891.10

Soil surveys: These activities comprise the surveying, mapping, and classifying of the soils of important areas in various parts of the country; the preparation of reports containing descriptive matter relating to the soils, their character, origin, and value for crops, and to the agricultural conditions found in each area surveyed; preparation of maps showing the distribution of the soils; the dissemination of information relating to the use of soils, and preparation of special bulletins and circulars on special crops. The following areas were surveyed in whole or in part during the fiscal year 1915, aggregating 50,550.5 square miles:

Alabama: Barbour County,[1] $1,754.41; Clay County, $1,989.04; Limestone County,[1] $129; Walker County, $1,641.89; Washington County,[1] $6,116.66; Wilcox County,[2] $211.44 ..... $11,842.44

Arizona: Yuma reclamation project 547.80

Arkansas: Columbia County,[1] $982.55; Jefferson County, $3,543.76; Yell County, $1,929.31 ..... 6,455.62

California: Honey Lake area,[1] $104; Pasadena area, $817.28; Riverside area, $1,657.34; San Fernando area, $919.68; San Francisco Bay area,[1] $1,448.52; Ukiah area,[2] $1,635.32; examination of certain lands in central California for the Department of Justice, $265 ..... 6,847.14

Delaware: New Castle County [2] 320.64

Florida: Fort Lauderdale area, $2,240.46; Franklin County, $2,940.19 ..... 5,180.65

Georgia: Clay County,[1] $40.10; Dekalb County, $489.79; Jackson County,[1] $224.16; Laurens County, $5,481.18; Polk County, $467.77; Turner County, $739.29; Washington County, $4,570.40; special examination of the soils of the experiment station farm near Cairo, Ga., $44.02 ..... 12,056.71

Idaho: Latah County [2] 1,047.04

Indiana: Clinton County,[1] $982.25; Elkhart County,[1] $1,470.20; Warren County,[1] $560.85 Wells County,[2] $464.28; White County,[2] $392.31 ..... 3,869.89

Iowa: Clinton County,[2] $387.79; Lee County,[1] $1,107.94; Muscatine County,[1] $1,404.23; Pottawattamie County,[1] $1,040.12; Sioux County,[2] $261.28; Van Buren County,[2] $427.37; Webster County,[1] $969 ..... 5,597.73

Kansas: Cowley County [2] 1,766.20

Kentucky: Jessamine County [2] 394.61

Louisiana: Lafayette Parish, $1,516.38; Rapides Parish, $2,292.92 ..... 3,809.30

Maine: Cumberland County [2] 388.59

Maryland: Montgomery County [1] 1,395.72

Michigan: Calhoun County [2] 263.01

Minnesota: Pennington County,[1] $955.87; Ramsey County, $1,776.26 ..... 2,732.13

Mississippi: Chicksaw County,[1] $1,103.42; Coahoma County, $2,279.22; Grenada County, $590.92; Jefferson Davis County, $1,905.81 ..... 5,879.37

Missouri: Buchanan County,[2] $360.56; Dunklin County, $262.81; Grundy County,[1] $624.36; Harrison County,[1] $845.55; Johnson County,[1] $1,242.48; Newton County,[2] $1,030.25; Pettis County,[1] $921.35; Ripley County,[2] $263.44 ..... 5,550.80

Montana: Bitter Root Valley area 1,269.45

Nebraska: Dawes County,[2] $407.06; Gage County,[1] $1,516.19; Nemaha County, $1,478.09; Polk County,[2] $170.76; Richardson County,[2] $364.36; Seward County,[1] $490; Thurston County,[1] $758.48; Washington County,[2] $455.02 ..... 5,639.96

New Jersey: Camden area [1] 1,270.48

New York: Chautauqua County,[1] $913.67; Clinton County,[1] $750.92; Schoharie County,[2] $375.57 ..... 2,040.16

[1] Surveyed in part during fiscal year 1914.

[2] To be completed during fiscal year 1916.

North Carolina: Alleghany County,[2] $173.33; Anson County,[2] $433.41; Columbus County, $2,960.68; Davidson County,[2] $49.75; Lincoln County, $1,254; Rowan County,[1] $1,216.64; Union County,[1] $762.25; Wayne County, $1,549.63 ..... $8,399.69

North Dakota: Bottineau County,[2] $722.64; Dickey County, $1,884.07; Lamoure County,[1] $594.22 ..... 3,200.93

Ohio: Geauga County,[2] $480.08; Hamilton County,[2] $322.70; Paulding County,[1] $312.18; Portage County,[1] $1,340.95; Trumbull County,[1] $1,366.09 ..... 3,822.00

Oklahoma: Kay County,[2] $849.70; Lawton reclamation project, $89.40; Roger Mills County,[1] $1,560.29 ..... 2,499.39

Oregon: Umatilla reclamation project 219.16

Pennsylvania: Blair County,[2] $278.49; Cambria County,[2] $34.42; Lancaster County,[1] $917.31 ..... 1,230.22

South Carolina: Dorchester County, $3,378.92; Hampton County, $2,460.65; Richland County, $1,765.62 ..... 7,605.19

Texas: Bell County, $2,097.49; Rio Grande reclamation project, $474.06; Smith County, $3,239.91; Taylor County, $5,677.88 ..... 11,489.34

Vermont: Windsor County [2] 726.37

Virginia: Fairfax County,[2] $407.35; Frederick County,[1] $2,019.79 ..... $2,427.14

Washington: Benton County,[2] $580.92; Franklin County,[1] $2,136.47 ..... 2,717.39

West Virginia: Gilmer and Lewis Counties,[2] $154.30; McDowell, Wyoming, and Raleigh Counties,[1] $607.50 ..... 761.80

Wisconsin: Dane County,[1] $15.53; northern part of north-central reconnoissance,[1] $5,477.67; northeastern reconnoissance,[1] $120.75; Portage County,[2] $434.03; southern part of north-central reconnoissance,[2] $1,413.58; Wood County,[2] $239.97 ..... 7,701.53

Wyoming: Shoshone reclamation project 197.41

Inspection, correlation, and supervision of field work: Inspection of soil-survey field work to secure uniformity in methods and results; examination and review of field reports; preparation of memoranda for soil correlation and keeping of records pertaining thereto; and correlating the soils of the various areas surveyed, so as to insure uniformity in the classification of the soils of the United States 14,724.85

Map drafting: Preparation of suitable base maps for the use of soil-survey field parties; securing data regarding official boundaries,

[1] Surveyed in part during fiscal year 1914.

[2] To be completed during fiscal year 1916.

BUREAU OF ENTOMOLOGY.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Administration	$34,120.22	.....	.....	$34,120.22	$462.48	$95.24	$1,737.45	$197.00
2	Deciduous-fruit insect investigations.	2,641.67	$8,862.00	$29,392.34	40,896.01	6,226.33	840.60	853.24	2,300.52
3	Cereal and forage insect investigations.	2,900.00	6,495.18	70,876.68	80,271.86	15,426.34	1,502.41	2,438.64	836.11
4	Southern field-crop insect investigations.	2,755.55	8,109.68	28,346.67	39,211.90	10,595.48	1,160.83	1,612.38	993.44
5	Forest insect investigations	3,673.00	20,371.04	24,574.84	48,618.88	5,495.59	141.57	616.17	107.25
6	Truck-crop and stored-product insect investigations.	3,120.00	10,271.81	20,068.59	33,460.40	2,745.49	500.05	717.48	1,076.08
7	Bee-culture investigations	1,360.00	12,445.16	12.00	13,817.16	539.77	284.52	130.73	82.67
8	Tropical and subtropical fruit insect investigations.	1,400.00	4,770.66	9,394.67	15,565.33	1,992.65	943.66	161.30	12.00
9	Investigations of the Mediterranean fruit fly.	.....	2,000.00	4,300.00	6,300.00	6,360.27	.....	348.10	310.00
10	Miscellaneous insect investigations.	4,710.00	23,027.72	15,734.01	43,471.73	5,537.07	505.41	482.28	157.23
11	Moth investigations	11,720.00	2,430.00	53,899.38	68,049.38	216,404.37	602.80	752.44	4,587.67
	Total	68,400.44	98,783.25	256,599.18	423,782.87	271,785.84	6,577.09	9,850.21	10,659.97

PROJECT STATEMENTS.

Administration.

Total expenditures as above $37,730.11

This covers the general administration, supervision, and direction of the investigations and business activities of the bureau, under the personal supervision of the chief of bureau.

Deciduous-Fruit Insect Investigations.

Total expenditures as above	$58,616.31
Outstanding liabilities, Aug. 31 (estimated)	1,004.04
Unexpended balance (estimated)	1,021.32
Total allotment	60,641.67

Distributed among the several subactivities as follows:

Supervision: General supervision of investigational and clerical work in connection with deciduous-fruit insects $7,148.38

Apple insects: Studies of the life history and habits of and remedies for the apple-tree borer, aphides, and other insects injurious to the apple, and development of methods for their control; also study of variations necessary in the spraying schedule to control the codling moth 18,494.56

Peach insects: Work on the biology of insects injurious to the peach, including thrips, peach-tree borer, etc., and determination of methods of control 5,453.85

railroad alignments, and other miscellaneous information required by field parties; adjusting, drawing, and coloring maps to be used as copy for lithographic reproduction and for measuring soil areas	$14,257.22
Photographic reproduction of base maps: The photographic enlargement or reproduction of base maps to a scale suitable for use of soil survey parties	1,200.00
Use of soils: General review of the results of the soil-survey work of the bureau with particular reference to the kind and extent of use of the principal soil types. This work is intended to assist in establishing or extending more systematic and intensive forms of agriculture	4,942.42
Special study of fruit soils: General review of the results of soil-survey work with particular reference to the value of the different soil types for fruit production	898.62
Advisory service: This includes the answering of correspondence relating to soils, the giving of advice regarding their use, and the identification of soil samples	2,500.00
Miscellaneous supplies: Purchase of necessary field equipment, consisting of plane tables, compasses, augers, alidades, and other instruments, drafting and photographic supplies, and other materials required for field and office work	2,928.53
Total	193,505.74

CLASSIFICATION OF AGRICULTURAL LANDS IN NATIONAL FORESTS.

Total expenditures as above	$11,171.53
Outstanding liabilities, Aug. 31 (estimated)	140.00
Unexpended balance (estimated)	6,688.47
Total allotment	18,000.00

The work under this project consists of assisting the Forest Service in the classification and segregation of agricultural lands in the several forest reserves with a view to determine their value for agricultural purposes, so as to enable the Forest Service to indicate what lands may be opened for settlement. The cost of the work was distributed as follows:

Supervision: General direction and supervision of the several activities, including necessary map drafting and stenographic services	1,113.44
Forest reserves in—	
Arkansas	650.45
California	5,786.42
Colorado	1,255.17
Idaho	483.17
Montana	1,392.89
New Mexico	352.72
Utah	277.27
Total	11,311.53

BUREAU OF ENTOMOLOGY.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$445.78		$1.50						$670.44	$37,730.11	1
149.82	$2,135.49	260.05	$669.75	$90.17		$7.45		4,186.88	58,616.31	2
368.60	3,536.14	646.88	757.38	311.08		377.75		7,760.76	114,233.95	3
392.50	819.50	207.83	558.20	101.53				4,167.27	59,820.86	4
271.17	846.00	147.38	56.19	24.08		59.20		1,523.64	57,907.12	5
209.03	409.42	95.44	405.28	16.11		8.39		2,899.85	42,543.02	6
36.31	640.30	41.12	30.62	18.46		124.50		591.32	16,337.48	7
47.21	839.68	138.20	162.36	59.21				1,519.54	21,441.14	8
7.05	552.52	105.46	44.10	48.94				1,450.37	15,526.81	9
179.61	1,227.11	181.05	189.43	84.84				2,711.23	54,726.99	10
519.69	2,781.93	890.01	2,212.01	380.20		310.00		15,325.80	312,816.30	11
2,626.77	13,788.09	2,714.92	5,085.32	1,134.62		887.29		42,807.10	791,700.09	

Grape insects: Investigation of the life history and habits of the grape berry moth, grape Phylloxera, and other important grape insects in the United States, and development and application of remedies	$6,420.06
Nut insects: General inquiry into the insect enemies of the pecan, chestnut, and other native cultivated nuts, and determination of appropriate remedies	4,127.32
Orchard insecticides and spraying machinery: Testing of proprietary insecticides; determination of the comparative merits of various types of spraying machinery in general use and of accessories used in spraying	6,370.50
Cranberry and small-fruit insects: Investigation of the important insects affecting the cranberry and other small fruits, and determination of appropriate remedial measures for same; study of methods of insect control now in vogue, with a view to develop improvements where possible	$3,236.10
Deciduous-fruit insect control by natural agencies: Determination of the importance of hymenopterous parasites and predatory insects in the control of various species of insects injurious to deciduous-fruit orchards, vineyards, etc., and development of methods for their practical propagation and dissemination	2,062.64

Orchard insect survey: Collection of data regarding a large number of insect pests of orchards, vineyards, etc., not normally of first-class importance as pests but which in the aggregate do a large amount of injury and may become seriously destructive at any time, so as to be prepared to promptly suggest remedies in case of serious insect outbreaks and minimize the loss from such causes $4,307.70

Deciduous-fruit nursery insect investigations: Investigation of the various insects affecting nursery stock and development of remedies which may be effectively applied under nursery conditions; investigation of the efficiency of fumigation methods now employed by nurserymen; effecting improvements in methods of disinfecting nursery stock 1,999.24

Total 59,620.35

CEREAL AND FORAGE INSECT INVESTIGATIONS.

Total expenditures as above	$114,226.71
Outstanding liabilities, Aug. 31 (estimated)	1,710.96
Unexpended balance (estimated)	1,462.33
Total allotment	117,400.00

Distributed among the several subactivities as follows:

Supervision: General supervision of all the cereal and forage insect investigations, preparation of results for publication, and usual office routine 8,248.38

Cereal insects: Investigations of insects attacking cultivated grains; experiments in the utilization of natural enemies of such insects, besides remedial and preventive measures through mechanical means. Work of this sort has been conducted in connection with the white grub, fall army worm, cutworms, western army cutworm, jointworm, wireworms, chinch bug, Hessian fly, corn rootworms, and miscellaneous insects affecting rye, barley, and other small grains 65,047.97

Forage insects: Studies of insects attacking plants used as forage and methods of combating same through the employment of their natural enemies and the utilization of mechanical remedial and preventive measures. The work covers the alfalfa weevil, range caterpillar, alfalfa seed chalcis, and insects attacking soy bean, cowpea, and other plants and grasses used for forage 42,641.32

Total 115,937.67

SOUTHERN FIELD-CROP INSECT INVESTIGATION.

Total expenditures as above	$59,820.86
Outstanding liabilities, Aug. 31 (estimated)	922.52
Unexpended balance (estimated)	1,012.17
Total allotment	61,755.55

Distributed among the several subactivities as follows:

Supervision: General supervision of southern field-crop insect investigations and conduct of usual office routine 8,069.76

Cotton insects: Investigation of the cotton boll weevil, including life history studies, experiments in methods of cultivation, determination of the efficiency of handpicking of squares, value of parasitic enemies as a control measure, and collection of data as to the status and dispersion of the weevil; study of the habits and extent of damage caused by cotton root aphides, cutworms, red spider, cotton flea, and other insects, and development of methods of control, determination of the injury caused by thrips and other insects affecting cotton in the Imperial Valley, Cal., and of appropriate remedies; study of the relation of insects to the shedding of cotton fruit, with a view to reduce loss from this cause $14,657.83

Tobacco insects: Study of insects attacking tobacco, including hornworms, budworms, wireworms, and the large tobacco beetle, determination of methods of control, by spraying and otherwise, and demonstration to planters of such methods; determination of feasible means to prevent losses in warehouses and factories due to the cigarette beetle; investigation of insects which transmit the mosaic disease 28,938.37

Rice insects: Life history studies of the rice water weevil, plant bug, crambid, and other insect species responsible for injury to this crop, and determination and demonstration of control measures 1,850.03

Sugar-cane insects: Investigation of the mealy bug, moth borer, beetles, and other insect enemies of sugar cane, with a view to discover means of suppressing them 4,118.21

Argentine ant: The object of this project is to reduce losses in cane plantations and orchards and prevent annoyance in warehouses, residences, and elsewhere caused by this insect 3,109.18

Total 60,743.38

FOREST INSECT INVESTIGATIONS.

Total expenditures as above	$57,907.12
Outstanding liabilities, Aug. 31 (estimated)	384.90
Unexpended balance (estimated)	170.98
Total allotment	58,463.00

Distributed among the several subactivities as follows:

Supervision: General supervision of forest insect investigations and performance of laboratory experiments and office routine pertaining to the work as a whole 7,961.73

Field investigations: Determination of the character, extent, cause, and methods of prevention and control of insect damage to forest reproduction, including seeds, seedlings, and saplings; the wood of dead, dying, and felled timber; crude, finished, seasoned, and utilized forest products, including poles, posts, mine props, railroad ties, etc.; hickory and ash forest and shade trees; and shade trees and hardy shrubs in general. Investigations of the relation of climatic conditions to forest tree insects, including latitude, altitude, lightning, storms, etc., and of the interrelation of insects and forest fires in the destruction of forests. Systematic and economic investigations of the scolytoid bark and timber beetles of North America, of flat-headed borers, round-headed borers, and beneficial insects, and investigations of general methods of combating forest, forest-product, and shade-tree insects. Instructions and demonstrations in the national forests and national parks relating to practical methods of preventing and controlling extensive insect depredations 34,450.19

Laboratory investigations: Technical research by specialists, including the identification and classification of species; preparation of original descriptions of species and the various stages in their life history; revising and bringing up to date the systematic knowledge of all North American species; determination of seasonal histories, food and breeding habits, geographical distribution, and such other information of a technical nature about the species as is essential to the best success in the investigation and practical treatment of economic problems relating particularly to forest and other scolytoid beetles, hymenopterous, coleopterous, dipterous, lepidopterous, and isopterous insects, and buprestid, cerambycid, and other coleopterous larvæ	$15,880.10
Total	58,292.02

TRUCK-CROP AND STORED-PRODUCT INSECT INVESTIGATIONS.

Total expenditures as above	$42,543.02
Outstanding liabilities, Aug. 31 (estimated)	683.08
Unexpended balance (estimated)	1,393.90
Total allotment	44,620.00
Distributed among the several subactivities as follows:	
Supervision: General supervision of truck-crop and stored-product insect investigations and performance of duties common to the whole work	7,073.14
Truck-crop insects: Determination of effective control measures against insects affecting potato, onion, cabbage, spinach, tomato, lettuce, and other truck crops	22,965.34
Sugar-beet insects: Life history studies of various sugar-beet infesting insects, such as the curly-top leaf hopper, sugar-beet wireworm, sugar-beet leaf beetle, and other less important pests, and determination of methods of control	8,031.19
Stored-product insects: Control of injurious insects affecting stored grains and cereals, dried fruits, cured meats, hides, furs, and manufactured fabrics	5,156.43
Total	43,226.10

BEE-CULTURE INVESTIGATIONS.

Total expenditures as above	$16,337.48
Outstanding liabilities, Aug. 31 (estimated)	13.25
Unexpended balance (estimated)	9.27
Total allotment	16,360.00
Determination of various methods by which bees respond to changes in external temperature, and best methods of caring for bees during winter; a study of the various diseases which affect the brood and adult bees; investigation of the development of the bee in the egg and in the larval stage; study of the scent organs of bees to determine their structure, functions, and influence of odors on activity, especially those produced by the bees; determination of optimum conditions under which wax is secreted by the bees	16,350.73

TROPICAL AND SUBTROPICAL FRUIT INSECTS.

Total expenditures as above	$21,441.14
Outstanding liabilities, Aug. 31 (estimated)	40.00
Unexpended balance (estimated)	18.86
Total allotment	21,500.00
Determination of the practicability of control measures for white fly; perfecting the most economical method of gassing citrus groves and citrus nursery stock to combat scale insects, and investigation of other citrus-fruit insects; investigation of various means of controlling injurious citrus insects; study of date-palm scale insects, and minor investigations of special forms of insect damage to tropical and subtropical fruits	21,481.14

INVESTIGATIONS OF THE MEDITERRANEAN FRUIT FLY.

Total expenditures as above	$15,526.81
Outstanding liabilities, Aug. 31 (estimated)	2,454.90
Unexpended balance (estimated)	15,218.29
Total allotment	33,200.00
Study of the life history of the fruit fly in relation to its hosts, looking to means of control and cooperation in the introduction of parasites from foreign countries; inspection and certification of pineapples and bananas for export from Hawaii to the mainland of the United States under quarantine, and general enforcement of this quarantine; investigations of fruits likely to be imported into the United States from Mediterranean or other countries, as a basis for any necessary quarantine action; inspection and regulation of entry of fruit imported into the United States from Mediterranean and other countries in which the fruit fly is known to occur	17,981.71

MISCELLANEOUS INSECT INVESTIGATIONS.

Total expenditures as above	$54,726.99
Outstanding liabilities, Aug. 31 (estimated)	531.95
Unexpended balance (estimated)	234.34
Total allotment	55,493.28
Distributed among the several subactivities as follows:	
Supervision: General supervision and administrative work in connection with the investigations of miscellaneous insects	4,887.96
Investigations, identification, and systematic classification of miscellaneous insects: This covers the miscellaneous investigational work not specifically provided for in other projects of the bureau	22,458.89
Insects affecting the health of man: Includes the investigation and eradication of the house fly, malaria-carrying mosquitoes, stable fly, Rocky Mountain spotted-fever tick, etc., and a study of the possible transmission of pellagra by insects	18,728.77
Insects affecting the health of domestic animals: Investigation of the various species of ticks which transmit disease or are important parasites of domestic animals, and of screw worm, ox warble, etc	9,183.32
Total	55,258.94

MOTH INVESTIGATIONS.

Total expenditures as above	$312,816.30
Outstanding liabilities, Aug. 31 (estimated)	2,982.67
Unexpended balance (estimated)	5,921.03
Total allotment	321,720.00

Distributed among the several subactivities as follows:

Supervision: General supervision of work in prevention of the spread of gipsy and brown-tail moth, preparation of the results for publication, and routine clerical work.	$15,467.31
Experimental work: Investigations concerning the gipsy moth and brown-tail moth	

BUREAU OF BIOLOGICAL SURVEY.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Administration	$18,071.01	$6,577.75	$355.00	$25,003.76	$516.17	$20.94	$2,070.12	$515.59
2	Game preservation	6,016.67	5,631.93	14,458.50	26,107.10	9,502.27	.....	142.85	1,681.04
3	Economic investigations	1,200.00	22,397.07	22,979.51	46,576.58	36,329.84	180.60	713.56	2,488.55
4	Biological investigations	4,181.67	14,971.11	3,650.97	22,803.75	5,918.28	510.05	136.15	519.34
5	Enforcement of the migratory-bird law.	750.00	2,189.17	26,053.70	28,992.87	16,135.97	.....	30.75	90.30
	Total	30,219.35	51,767.03	67,497.68	149,484.06	68,402.53	711.59	3,093.43	5,294.82

PROJECT STATEMENTS.

ADMINISTRATION.

Total expenditures as above	$29,888.14
Outstanding liabilities, Aug. 31 (estimated)	220.48
Unexpended balance (estimated)	2,231.37
Total allotment	32,339.99
Administration of the investigational work of the bureau and conduct of its business and routine laboratory operations	30,108.62

GAME PRESERVATION.

Total expenditures as above	$78,612.31
Outstanding liabilities, Aug. 31 (estimated)	361.57
Unexpended balance (estimated)	13,014.72
Total allotment	91,988.60

Distributed among the several subactivities as follows:

Supervision: General direction of the activities under this group, including necessary clerical and other routine work	7,789.49
Interstate commerce in game: The enforcement of secs. 242 and 243 of the Criminal Code of the United States, regulating the interstate shipment of game. Evidence of violations of the Federal game laws is collected and transmitted to the Department of Justice and to State officials through the Solicitor's office and expert testimony given when necessary	3,317.88
Importation of foreign mammals and birds: The prevention, by inspection service, of the introduction from foreign countries of injurious birds and mammals	1,878.27
General maintenance of reservations and refuges: Maintenance of areas set apart by Executive order or acts of Congress as breeding refuges for birds and game mammals and placed in charge of the Biological Survey	$15,697.65
Montana national bison range: Maintenance of reservation and care of the herds of buffaloes and other big animals which may be transferred to the range	1,952.63
Wind Cave preserve: The maintenance of a national game preserve in Wind Cave National Park, S. Dak.	12,235.20
Winter elk refuge: Establishment and maintenance of a permanent winter refuge to insure perpetuation of elk in Wyoming	34,415.11
Protection and removal of elk in Wyoming: Maintenance of elk during winter; also the transfer of small experimental elk herds to other locations on public lands	10.50
Aleutian Islands reservation: Protection of birds, propagation of reindeer, and general development of reservation	180.00
Sullys Hill national game preserve: Improvement of game preserve in Sullys Hill National Park, N. Dak., by construction of fences, sheds, buildings, and corrals necessary for the proper care and maintenance of animals and birds to be placed therein	19.45
Restocking reservations: Restocking national game preserves and other reservations with big game and game birds adapted thereto	698.52
Publications: Compilation, publication, and distribution of information concerning game, game laws, interstate commerce in game, and importation of foreign birds	779.18
Total	78,973.88

and the proper methods for their control; importation, breeding, and colonization of parasites and natural enemies of these insects, and investigation of the diseases affecting them; experiments to determine best methods of silvicultural management of moth-infested woodlands; determination of relation of wilt disease to gipsy-moth control; study of effects of secondary insects on trees that have been defoliated by the gipsy moth; and maintenance of the gipsy-moth laboratory and storehouse.. $81,072.32

Field work: Application of results of experimental work; enforcing regulations prescribed by Federal Horticultural Board; determination of limits of infested area; and application of measures to prevent spread of these insects..... 219,259.34

Total..... 315,798.97

BUREAU OF BIOLOGICAL SURVEY.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$597.75	.....	$128.54	$518.41	.....	.....	.....	.....	$516.86	$29,888.14	1
39.99	$140.00	138.94	1,213.04	.....	$808.39	$90.75	[1] $31,500.00	7,247.94	78,612.31	2
90.78	102.17	149.82	723.51	.....	1,745.76	.....	.....	17,737.83	106,839.00	3
84.19	.....	48.10	78.86	.....	55.61	9.60	.....	514.91	30,678.84	4
70.55	.....	157.78	8.69	.....	.....	.....	.....	59.48	45,546.39	5
883.26	242.17	623.18	2,542.51	.....	2,609.76	100.35	31,500.00	26,077.02	291,564.68	

[1] Land.

Economic Investigations.

Total expenditures as above..... $106,839.00
Outstanding liabilities, Aug. 31 (estimated).. 2,172.85
Unexpended balance (estimated)..... 7,188.15

Total allotment..... 116,200.00

Distributed among the several subactivities as follows.

Supervision: General direction of the activities under this group, including necessary routine laboratory and office work..... 6,101.99

Relation of native and introduced mammals to agriculture: The investigation of the relation of wild animals, especially rodents and carnivores, to agriculture, and devising and demonstrating methods for the control of the injurious species. The national forests, national parks, and bird reservations are infested with numerous mammals which are extremely destructive to live stock, nursery and fruit trees, pasturage, and other vegetation, and largely reduce the value and revenue from these sources. Experiments and demonstrations are carried on and methods devised for the control and destruction of moles, pocket gophers, prairie dogs, wolves, and other predacious animals..... 69,902.78

Relation of native and introduced birds to agriculture: Field observations and laboratory investigations of birds' stomachs, and preparation of reports concerning foods of native birds, for use of farmers, fruit growers, and foresters. Beneficial and injurious species are determined and recommendations made for their protection or control. Work includes investigations in relation to the food of ducks, mocking birds, thrashers, and Panama birds; also in relation to the damage done to oysters by ducks in the Puget Sound region..... $11,622.42

Rearing fur-bearing animals: The development of superior types of fur-bearing animals, such as fox, mink, marten, otter, and raccoon, and the placing of the rearing of fur-bearing animals on an economic basis; also the utilization of the Aleutian Islands as breeding grounds for blue foxes and other valuable fur bearers..... 4,930.51

Destruction of ground squirrels in national forests: Experimental and general work in destroying ground squirrels in national forests. These animals are always serious enemies of agriculture and are carriers of plague in California..... 13,718.11

Disease of wild ducks: An investigation into the cause of the great mortality among the wild ducks of Salt Lake Valley, Utah, in order to determine means of preventing a recurrence..... 2,576.81

Control of crawfish in cotton and corn fields: Devising and demonstrating methods for the economic control of crawfish in the Houston clay and black prairie areas of Mississippi and Alabama, where they materially damage crops..... 159.23

Total..... 109,011.85

BIOLOGICAL INVESTIGATIONS.

Total expenditures as above	$30,678.84
Outstanding liabilities, Aug. 31 (estimated)	70.83
Unexpended balance (estimated)	942.00
Total allotment	31,691.67

Distributed among the several subactivities as follows:

Supervision: General direction of the projects under this group, including necessary clerical and other routine work	1,248.14
Biological surveys of the States and Territories: Determining the distribution, abundance, and habits of the birds and mammals of the United States, also the distribution of the principal plants, in order to obtain data by which the natural life zones may be determined, as well as securing information for publication which will be of use to the public in the conservation of bird and mammal life	$18,278.45
Investigations of birds and mammals of the public domain: Securing for publication accurate information concerning the wild life of the public domain for the better conservation of the valuable species and the destruction of the harmful ones. These data enable areas to be selected for restocking with game birds and animals; give similar information concerning the fur-bearing mammals, many of the more valuable species of which are threatened with extinction; show the distribution and abundance of injurious species, as wolves, mountain lions, prairie dogs, and ground squirrels, and furnish a basis for plans for their destruction	8,208.52

DIVISION OF PUBLICATIONS.

Classification of expenditures for the fiscal year ended June 30, 1915.

Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
	Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
		In Washington.	Out of Washington.					
Publication work of the Department of Agriculture	$168,019.14	.....	.....	$168,019.14	.....	$1,031.37	$1,447.64	$813.01

PROJECT STATEMENT.

Total expenditures as above	$186,459.60
Outstanding liabilities, Aug. 31 (estimated)	.37
Unexpended balance (estimated)	3,040.03
Total allotment	189,500.00

Distributed among the several subactivities:

Administration: Direction and supervision of the publication work of the department, including expenditures from the general printing fund of $500,000; routine correspondence and clerical work	$22,665.72
Editorial work: Handling of all manuscripts submitted for publication, including preparation of copy for the printer, editing, revising, proof reading, compiling, abstracting, etc	19,275.14
Indexing: Preparation of indexes to publications when necessary; card indexing by subjects all publications issued by department	10,064.45

BUREAU OF CROP ESTIMATES.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Administration	$22,323.30	$2,436.82	.....	$24,760.12	.....	.....	$283.00	$265.77
2	Crop reporting and estimating	55,443.60	7,858.65	$68,610.77	131,913.02	$51,784.43	.....	569.63	1,574.16
3	Crop recording and abstracting	36,770.72	9,296.34	.....	46,067.06	.....	.....	7.84	27.92
	Total	114,537.62	19,591.81	68,610.77	202,740.20	51,784.43	.....	860.47	1,867.85

Bird migration: Securing accurate data on the migratory movements of game and other birds, and their breeding and wintering locations, to serve as a basis for the conservation of useful species and for use in the formulation of regulations under the Federal migratory-bird act	$3,014.56
Total	30,749.67
ENFORCEMENT OF THE MIGRATORY-BIRD LAW.	
Total expenditures as above	$45,546.39
Outstanding liabilities, Aug. 31 (estimated)	147.38
Unexpended balance (estimated)	5,056.23
Total allotment	50,750.00

Distributed among the several subactivities as follows:

Supervision: General supervision, including necessary clerical and other routine work	$3,666.43
Migratory-bird protection: Protection of migratory waterfowl, shore birds, and insectivorous birds through the establishment of a warden service and cooperation with State game associations in connection with the enforcement of the provisions of the migratory-bird law	42,027.34
Total	45,693.77

DIVISION OF PUBLICATIONS.

Class fication of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.
$11,055.60	.....	$185.87	$29.36	.....	.....	.....	[1] $1,403.57	$2,474.04	$186,459.60

[1] Engraving, $283.15; cleaning and toilet supplies, $406.41; mechanics', engineers', and electricians' supplies, $714.01.

Illustration work: Preparation of drawings and photographs used in illustrating publications of the department; photographic and drafting work for all branches of the department for official record and for lectures; preparation of lantern slides for official use and photographs and lantern slides for furnishing to applicants at a price authorized by law; production of motion pictures of the department's activities, for educational purposes	$31,571.71
Distribution of documents: Cooperation with the Government Printing Office in the distribution of department publications; maintenance of record of distribution of department publications; storing and mailing of publications used in the department distribution; mailing of all press notices; preparation of duplicating forms and circular letters for the various bureaus; preparation of congressional correspondence relating to quotas of farmers' bulletins; mailing of all publications sent to foreign addresses, and recording of such distribution; maintenance of mailing lists, etc	$102,882.95
Total	186,459.97

BUREAU OF CROP ESTIMATES.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$713.92	.....	$553.51	$339.26	.....	.....	.....	$4.88	$100.33	$27,020.79	1
7,881.54	.....	80.00	.....	.....	.....	.....	33.98	297.42	194,134.18	2
610.03	.....	.....	.....	.....	.....	.....	2.97	101.05	46,816.87	3
9,205.49	.....	633.51	339.26	.....	.....	.....	[1] 41.83	498.80	267,971.84	

[1] Cleaning and toilet supplies.

PROJECT STATEMENTS.

Administration.

Total expenditures as above	$27,020.79
Outstanding liabilities, Aug. 31 (estimated)	735.00
Unexpended balance (estimated)	129.21
Total allotment	27,885.00

This project covers the general direction and supervision of the work of the bureau and includes the office of the chief of the bureau, the chief clerk's office, the accounts, property, and supply sections, bureau library, files and mail section, all matters of personnel, and work in connection with the distribution of seeds, calendars, and publications to voluntary crop correspondents.. 27,755.79

Crop Reporting and Estimating.

Total expenditures as above	$194,134.18
Outstanding liabilities, Aug. 31 (estimated)	2,313.00
Unexpended balance (estimated)	3,777.82
Total allotment	200,225.00

Distributed among the several subactivities as follows:

Collecting and reporting domestic crop data: Collecting and reporting periodically the acreage, condition, yield, and value of staple crops, including live stock, throughout the United States	$164,320.27
Collecting and reporting agricultural data: Collecting, reporting, and tabulating data relating to various phases of agriculture, such as farm prices, occurrence and extent of plant and animal diseases, ravages by insect pests, damage occasioned by adverse weather conditions, rural organizations, and special crops or classes of farm animals not included in regular schedules	32,126.91
Total	196,447.18

Crop Recording and Abstracting.

Net expenditures	$46,816.87
Outstanding liabilities, Aug. 31 (estimated)	60.00
Unexpended balance (estimated)	593.13
Total allotment	47,470.00

OFFICE OF EXPERIMENT STATIONS.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Agricultural experiment stations.	$37,051.41	$40,252.28	.....	$77,303.69	$2,425.82	.....	$3,614.78	$494.33
2	Alaska Experiment Station	.....	.....	$32,124.44	32,124.44	1,228.10	$106.05	272.25	3,099.13
3	Hawaii Experiment Station	.....	.....	26,567.12	26,567.12	958.60	90.91	478.65	1,054.89
4	Porto Rico Experiment Station	.....	.....	25,271.06	25,271.06	581.63	75.00	309.55	1,344.60
5	Guam Experiment Station	.....	.....	10,887.98	10,887.98	.....	9.70	58.80	876.17
6	Farmers' institutes and agricultural schools.	5,624.00	15,155.17	1,193.93	21,973.10	2,162.18	.....	915.84	230.38
7	Home economics investigations.	4,148.16	21,652.11	.....	25,800.27	665.55	1,439.30	890.74	198.77
8	Irrigation investigations	9,253.90	11,002.92	60,268.47	80,525.29	19,628.15	85.50	947.54	3,205.93
9	Drainage investigations	11,558.04	13,850.01	43,148.94	68,556.99	24,824.74	20.42	792.92	2,638.16
	Total	67,635.51	101,912.49	199,461.94	369,009.94	52,474.77	1,826.88	8,281.07	13,142.36

PROJECT STATEMENTS.

Agricultural Experiment Stations.

Total expenditures as above	$87,164.79
Unexpended balance (estimated)	386.62
Total allotment	87,551.41

Supervision of the work and expenditures of State agricultural experiment stations and of the cooperative agricultural extension work between the State agricultural colleges and the Department of Agriculture, including the annual inspection of each station, examination of the accounts, financial reports, equipment, publications, etc., and personal conference with the station officials to determine the legitimacy and efficiency of their work and expenditures; direct management of Territorial experiment stations in Alaska, Hawaii, Porto Rico, and the island of Guam; preparation of annual reports to Congress on the work and expenditures of each station; advice to stations regarding personnel, lines of work, equipment, publications, etc.; collection of literature on agricultural science throughout the world and the preparation of summaries of the same in the Experiment Station Record, consisting of 18 numbers of 100 pages each, annually, with detailed indexes; preparation of card indexes on publications of American stations for the use of agricultural colleges and experiment stations, State departments of agriculture, and others; and exchange of information regarding the organization and progress of agricultural research with over 1,000 experiment stations and kindred institutions in more than 50 countries..... $87,164.79

Distributed among the several subactivities as follows:

Collecting and reporting foreign crop data: This consists of an exchange of crop estimates with the International Institute of Agriculture at Rome..... $82.52

Estimating the acreage, yield, and value of domestic and foreign crops: By means of publication in the Yearbook of the department and by tabular statements and correspondence preliminary and final estimates of agricultural production in the United States and foreign countries are furnished, thereby making available such data for a long series of years for study, comparison, and analysis..... 26,898.78

Estimates of the international trade of the United States in agricultural products: Publication in the Yearbook of the department and by means of tabular statements and correspondence of estimates of the imports and exports of farm and forest products, indicating the surplus or deficiency of agricultural production in the United States and foreign countries and embracing comparative data as far back as 1790..... 2,234.94

Estimates of planting and harvesting dates of principal crops: An estimate of the average dates of planting and harvesting forage crops, similar to data already published with reference to cereal crops, flax, cotton, and tobacco..... $705.10

Estimates of prices of farm products and articles bought by farmers: Preparation of annual estimates of prices received by farmers for their products and of prices of principal articles bought by them, the information being published periodically... 8,305.04

Estimate of meat supply in the United States and foreign countries: Preparation of an estimate of the number of meat animals on hand and of the United States exports and imports of meat animals and their products, including an investigation into the general conditions affecting the meat supply..... 7,053.07

Estimate of wages of farm labor: Publication in the Agricultural Outlook (Monthly Crop Report) of annual estimates of wages paid for labor in different types of farming in different localities, with and without board, by the day, month, or year, as an incident to the cost of production..... 1,541.16

Growth of dairy industry in the United States: Publication of a bulletin containing an estimate of the growth of city demand for milk, of butter and cheese manufactured, of the relation of dairy cows to improved land area, etc..... 56.26

Total..... 46,876.87

OFFICE OF EXPERIMENT STATIONS.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$2,009.57	.....	$146.63	$22.27	.....	.....	.....	.....	$1,147.70	$87,164.79	1
76.95	$330.04	37.00	3,385.41	$453.60	$1,666.20	$147.50	[1] $28.80	3,528.34	46,483.81	2
411.80	62.50	193.78	213.02	307.55	831.98	.....	[2] 171.50	3,912.07	35,254.37	3
149.81	.....	4.75	353.36	171.05	432.48	.....	.....	3,509.57	32,202.86	4
29.18	.....	68.51	455.75	.....	473.56	.....	.....	2,008.70	14,868.35	5
135.22	.....	47.63	6.78	.....	.....	.....	.....	786.55	26,257.68	6
64.39	.....	19.26	36.81	.....	.....	.....	.....	648.60	29,763.69	7
508.05	1,909.34	782.15	706.46	236.50	.....	.....	.....	2,105.94	110,640.85	8
645.64	1,030.25	341.18	902.87	13.85	.....	.....	.....	3,568.77	103,335.79	9
4,030.61	3,332.13	1,640.89	6,082.73	1,182.55	3,404.22	147.50	200.30	21,216.24	485,972.19	

[1] Advertising.

[2] Printing.

Alaska Experiment Station.

Total expenditures as above:
Appropriation, 1915..... $39,992.46
Receipts from sale of products..... 6,491.35
$46,483.81

Unexpended balance (estimated)..... 7.54

Total allotment..... 46,491.35

Maintenance of a central station located at Sitka, Alaska, with subsidiary stations at Fairbanks, Rampart, and Kodiak, to investigate the agricultural and horticultural resources of Alaska and determine their possibilities, including the development of animal industry, dairying, etc.; the introduction of cattle and sheep for experimental purposes; and an agricultural survey of the Susitna and Matanuska River valleys with a view to the possible location and establishment of an agricultural experiment station to the north of Cook Inlet after the completion of the Government railroad..... 46,483.81

Hawaii Experiment Station.

Total expenditures as above:
Appropriation, 1915..... $34,822.27
Receipts from sale of products..... 432.10
$35,254.37

Unexpended balance (estimated)..... 177.73

Total allotment..... 35,432.10

Maintenance of a station at Honolulu, Hawaii, to study diversified agriculture, including the proper management of soil for rice and pineapples, plant-breeding experiments, introduction of forage crops, and a general study of the peculiar agricultural needs of this group of islands; also demonstrations to farmers and communities on the different islands composing the group in the growing, handling, and marketing of tropical and subtropical crops, such as pineapples, bananas, and roselle, also cotton, corn, potatoes, onions, garden vegetables, etc., and in stock raising, dairying, etc..... 35,254.37

PORTO RICO EXPERIMENT STATION.

Total expenditures as above:		
Appropriation, 1915	$29,998.19	
Receipts from sale of products	2,204.67	
		$32,202.86
Unexpended balance (estimated)		1.81
Total allotment		32,204.67
Maintenance of a station at Mayaguez, P. R., to investigate problems underlying the development of agriculture, including experiments in agronomy, entomology, horticulture, etc., and to devise means and methods of improving the art and practice. Material contributions to the development of the citrus-fruit and pineapple industries have been made, improved coffees developed, methods for control of various fungous and insect pests worked out, and interest in beekeeping as an industry, live stock improvement, and attention to the care and feeding of stock advanced		32,202.86

GUAM EXPERIMENT STATION.

Total expenditures as above	$14,868.35
Outstanding liabilities, Aug. 31 (estimated)	20.20
Unexpended balance (estimated)	111.45
Total allotment	15,000.00
Maintenance of a station at Agana, Guam, to conduct investigations and carry on experiments to determine the agricultural possibilities and improve the agricultural conditions of the island, including the introduction of improved varieties of crops, live stock, and modern implements. The introduction of better crops and stock have been the leading lines of investigation thus far, and have been attended with gratifying results. The production of forage sufficient for stock raising has been demonstrated as possible through the introduction of new varieties of tropical forage plants. Improved varieties of fruits and vegetables have been secured and distributed, and experiments are well under way for the improvement of the live stock of the island through the introduction of pure-bred horses, cattle, hogs, and chickens	14,888.55

FARMERS' INSTITUTES AND AGRICULTURAL SCHOOLS.

Total expenditures as above	$26,257.68
Outstanding liabilities, Aug. 31 (estimated)	45.58
Unexpended balance (estimated)	2,320.74
Total allotment	28,624.00
Distributed among the several subactivities as follows:	
Supervision: General direction of the work in connection with farmers' institutes and agricultural schools	1,337.82
Farmers' institutes: Investigations and reports upon the organization and progress of farmers' institutes in the United States and foreign countries, for the purpose of obtaining special suggestions of plans and methods for making these organizations more effective for the dissemination of the results of the work of the department and the agricultural experiment stations and to improve methods of agricultural practice	9,000.70
Agricultural schools: Investigations and reports upon the organization and progress of agricultural schools in the United States and foreign countries, for the purpose of obtaining special suggestions of plans and methods for making these organizations more effective for the dissemination of the results of the work of the department and the agricultural experiment stations and to improve methods of agricultural practice	$15,964.74
Total	26,303.26

HOME ECONOMICS INVESTIGATIONS.

Total expenditures as above	$29,763.69
Outstanding liabilities, Aug. 31 (estimated)	5.93
Unexpended balance (estimated)	138.54
Total allotment	29,908.16
Distributed among the several subactivities as follows:	
Supervision: General supervision of the investigations of the relative utility and economy of agricultural products for food, clothing, and other uses in the home	1,557.44
Home economics investigations: Investigation and reports of the relative utility and economy of agricultural products for food, clothing, and other uses in the home, for the purpose of suggesting plans and methods for the more effective utilization of such products for these purposes. These investigations involve respiration calorimeter experiments on the incubation of eggs and studies of labor expenditure and efficiency in household activities; studies of effective sterilization temperatures in cooking animal food, and of the utility, economy, and use of agricultural materials employed for clothing and other home purposes; studies of the more effective utilization of clothing and of home equipment; and respiration calorimeter experiments in the ripening of fruits and vegetables. A large amount of accumulated information has been incorporated in textbooks on physiology and dietetics which are used in schools, colleges, and elsewhere, and the results of the investigations also find wide practical application by housekeepers, institutions, physicians, and others interested in the feeding of men either as individuals or in groups	28,212.18
Total	29,769.62

IRRIGATION INVESTIGATIONS.

Total expenditures as above	$110,640.85
Outstanding liabilities, Aug. 31 (estimated)	100.00
Unexpended balance (estimated)	4,913.05
Total allotment	115,653.90
Distributed among the several subactivities as follows:	
Supervision: General supervision of irrigation investigations	22,811.16
Use of water: Experiments and investigations to establish standards for the most effective and economical use of available water supplies for crop production, including field experiments in which water is applied in different quantities at different	

times; tank experiments to determine the disposition of water used; experiments to determine the advantages and possibilities of irrigation in semiarid and humid sections. The results of these investigations have been disseminated among irrigators through publications, correspondence, and orally, and have been instrumental in causing a rapid extension of the practice of irrigation.	$40,066.71
Irrigation practice: Investigations to determine the best methods and means of supplying the water requirements of crops under varying conditions of crops and soils, effect of different methods of applying water, distribution of moisture in soil, waste of water through evaporation, run-off, and seepage; observations of irrigation practice throughout the irrigated section. The results of these investigations have been made available through personal advice, correspondence, and publications and through the maintenance of experimental stations which serve also as demonstrations	14,587.12
Power and appliances: Investigations and experiments in the use of engines and pumps of various types for supplying water for irrigation; designing and construction of irrigating structures and devices; construction and use of irrigating implements and equipment; construction of farm ditches and application of water to lands. The results are used in the preparation of bulletins and in answering inquiries	22,391.69
Laws and institutions: Studies of the laws, forms of organization, regulations, systems of distribution, etc., affecting the use of water for irrigation, to determine the effect of these laws and institutions on the utilization of the water resources; study of the equitable distribution of water and its economical use; settlement and utilization of lands under irrigation enterprises	4,784.62
Advisory service: Dissemination to the public and especially to new settlers of the results of the irrigation investigations and experiments and general advice on irrigation possibilities, equipment, methods, etc., through publications, demonstrations, and written and oral advice to individuals and communities requesting assistance	6,099.55
Total	110,740.85

DRAINAGE INVESTIGATIONS.

Total expenditures as above	$103,335.79
Outstanding liabilities Aug. 31 (estimated)	180.00
Unexpended balance (estimated)	4,322.25
Total allotment	107,838.04

Distributed among the several subactivities as follows:

Supervision: General supervision of drainage investigations	20,256.09
Farm drainage: Studies of methods of removing excess moisture from ground and of relieving sloping lands of rainfall without loss of soil; preparation of plans for drainage of selected areas to serve as demonstrations of properly constructed farm drains and as object lessons to interested landowners of the best methods of planning and constructing such drains; and dissemination of results of drainage investigations and experiments among farmers and landowners	$18,154.50
Swamp lands: Studies of methods of drainage of comparatively large tracts of lands naturally swampy for a considerable portion of the year, and the preparation of drainage plans and reports for a few representative areas, for the purpose of demonstrating methods of reclamation and encouraging landowners to organize and provide for drainage work. This work has resulted in marked activity in drainage construction in certain districts	2,089.85
Overflowed lands: Investigation of lands injured by overflow of streams; studies of methods of preventing inundation and of draining protected lands; drainage surveys of representative areas, including the preparation of plans and reports, for the purpose of determining whether or not construction of new channels, correction of existing watercourses, or protection by embankments, with subsidiary ditches, sluices, or pumping plants, is required; and to encourage the use of fertile river-bottom lands usually producing hay of small or no value, furnishing indifferent grazing, or entirely abandoned to weeds and brush	15,317.65
Irrigated lands: Investigations of land in arid and semiarid regions injured by water-logging and resulting accumulation of alkali, and dissemination of information as to practical drainage methods. Data on the movement of ground water under various conditions of the soil and topography have been gathered and sufficiently accurate and definite statements formulated to serve as a guide to farmers in planning and constructing drainage works. Studies have also been made of the value of drainage in removing injurious salts accumulated at or near the ground surface	26,920.79
Technical investigations: Investigations to determine the maximum rate at which water should be removed from definite areas to secure efficient drainage; effect of area, soil, climate, topography, etc., upon rate of run-off; capacity of ditches, natural streams, and tile drains at different grades and under varying conditions of smoothness of alignment; means of preventing silting and erosion; types of excavating machinery best suited to different working conditions, with cost data; proper relation between capacity of drainage pumping plants and available storage in ditches; cost of different classes of drainage construction; value of hydraulic-cement mortar for draintile, especially in the alkaline soil of irrigated regions. Experimental installations have been made in cooperation with the Bureau of Standards, Department of Commerce, of concrete tile in various alkaline soils of the arid regions for the purpose of observing the effect of the salts and of frost upon this class of tile. The data collected will be used in the preparation of reports for the information and guidance of engineers and others interested and in filling requests for information and advice	20,776.91
Total	103,515.79

OFFICE OF PUBLIC ROADS.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Administration	$17,257.23	$4,736.14	.....	$21,993.37	$706.82	$195.55	$1,284.23	$333.96
2	Road-management investigations.	14,852.68	19,346.77	$12,521.95	46,721.40	8,776.18	108.15	359.68	288.64
3	Road building and maintenance investigations.	11,938.63	23,922.51	86,403.98	122,265.12	30,411.03	154.92	607.15	1,907.85
4	Road-material investigations	8,318.67	25,269.30	.....	33,587.97	2,053.46	914.76	167.21	394.85
5	Field experiments	.....	4,591.94	5,039.99	9,631.93	3,355.28	19.27	117.53	93.40
6	Improvement of post roads	.....	.....	4,258.76	4,258.76	334,962.72	.....	.....	141.68
	Total	52,367.21	77,866.66	108,224.68	238,458.55	380,265.49	1,392.65	2,535.80	3,160.38

PROJECT STATEMENTS.

Administration.

Total expenditures as above	$31,164.01
Outstanding liabilities Aug. 31 (estimated)	1,389.65
Unexpended balance (estimated)	103.57
Total allotment	32,657.23

This project covers the general administration of the business affairs of the office and the general direction of all its investigational activities 32,553.66

Road-Management Investigations.

Total expenditures as above	$58,403.89
Outstanding liabilities Aug. 31 (estimated)	1,199.09
Unexpended balance (estimated)	49.70
Total allotment	59,652.68

Distributed among the several subactivities as follows:

General statistical and research investigations: The object of this work is to secure accurate figures on mileage of roads throughout the United States and the cost of construction, repair, and maintenance, and to collect and systematize all current information relative to highways throughout the country 23,764.14

Convict labor studies: Personal investigations of convict road camps in all parts of the United States by a representative of this office and a representative of the United States Public Health Service. An exhaustive bulletin is being prepared covering this investigation. The utilization of convict labor in road management is becoming so widespread that accurate information upon this subject is urgently needed 4,935.76

Economic study of highway systems: Studies of the organization, procedure, cost of operation, and the results obtained in the management of highway construction and maintenance in counties and townships by State highway departments on work done under State supervision, together with investigations of an economic character of post roads improved under the supervision of this office 9,945.38

Traffic census: Covers actual traffic counts on highways constructed under the direction of this office for the purpose of ascertaining the wear of the highways and the service rendered, so as to determine the advisable outlay, as well as the kind and type of road construction, to meet traffic conditions $2,658.95

Lectures and demonstrations of road and bridge models: To make available through lectures for practical use the results of the research projects, and to demonstrate by the intelligent use of road models, lantern slides, and popular lectures the various phases of road construction and improvement 18,153.55

Instruction of students in highway engineering: Instruction of civil-engineer students of this office in the economic and administrative phases of highway engineering by means of lectures and by having students prepare theses on the subject of road management in its various phases 145.20

Total 59,602.98

Road Building and Maintenance Investigations.

Total expenditures as above	$156,210.02
Outstanding liabilities, Aug. 31 (estimated)	891.94
Unexpended balance (estimated)	62.67
Total allotment	157,164.63

Distributed among the several subactivities as follows:

Object-lesson roads: To demonstrate the proper methods of construction and the most efficient use of material, to instruct local road officials in the art of road building, and to correlate conclusions drawn from laboratory tests with those resulting from service tests. Local road officials are instructed as to the best methods of using available materials in the construction of any desired type of modern roadway adapted to local conditions 17,381.01

County model systems: Study of the roads of a county or other similar political subdivision and preparation of general plans and specifications for the administration, improvement, and maintenance of their roads, the general purpose being to guide the local road officials in the expenditure of available funds for road improvement 3,069.74

OFFICE OF PUBLIC ROADS.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$3,248.23	.....	$797.96	$1,214.01	$106.00	.....	.....	.....	$1,283.88	$31,164.01	1
595.73	.....	13.15	10.22	.....	.....	.....	.....	1,530.74	58,403.89	2
427.32	.....	64.46	80.88	.....	.....	.....	.....	291.29	156,210.02	3
134.99	.....	5.56	1.45	.....	.....	.....	.....	2,771.01	40,031.26	4
53.41	$12.00	1.58	1,040.53	.....	.....	.....	.....	8,807.96	23,132.89	5
32.25	.....	4.34	10.60	73.85	.....	.....	.....	7,097.54	346,581.74	6
4,491.93	12.00	887.05	2,357.69	179.85	.....	.....	.....	21,782.42	655,523.81	

Advice and inspection: To make inspections, study specific local road problems, prepare definite recommendations for their solution, and bring this information to the assistance of those who ask for it. The work is done in any part of the United States on application from local road officials and covers the giving of advice in regard to road construction and maintenance where the scope is more limited than the county system work dealing with specific local road problems..... $27,498.54

Superintendence of county roads: Demonstration to county officials of the advantages accruing from the supervision of all county roads by a highway engineer and the advantages of centralized control over all roads under one skilled in construction and maintenance. An engineer is appointed to take charge of administering expenditures for the road work of a county over a considerable period of time, usually not to exceed one year, in order to formulate and put in operation more efficient methods of management, construction, and maintenance 3,137.55

Road surveys: The road laws of many States now require or permit contract work. As the type of construction advances the county road forces are not competent to execute actual construction, and contracting is resorted to. In a great many cases counties do not recognize and fail to see the economy of having this contract work done according to properly established lines and grades. The object of this work is to provide competent surveys to limited sections of roads with a view to their construction by contract methods and, as an example to counties, to call their attention to the advantages of having a county engineer to prepare plans and specifications for road work. 3,414.83

Instruction of students in highway engineering: The civil-engineer students employed in this office are given practical training both in the field and in the laboratories in Washington in the general work of this office, involving large problems of highway systems as well as the smallest details of construction. In this way the young engineers, by practical training, are enabled later to take charge of and successfully conduct the more difficult demonstrations of road building and maintenance..... 5,900.72

Improvement of roads in United States forest reserves: Covers cooperation with Forest Service in the improvement of roadways in the national forests, and consists of advising local forest officials as to the best methods of constructing and maintaining roads; also making surveys and supervising the construction of a system of roads through the various forest reserves..... $13,564.51

Improvement of roads in United States national parks: Advising national park officials as to the best methods of constructing and maintaining roads in various national parks. Surveys and designs are made for the opening of trails and the construction of roads in various national parks, and advice is given as to the best methods of constructing and maintaining them. Inspections are made and recommendations prepared for the guidance of local park officials in making improvements in park highways..... 4,463.06

Road maintenance: Studies are made of the details of systematic maintenance developed by State highway departments in representative States, in order to disseminate such information to road officials throughout the country. Similar studies are made of country road maintenance in selected counties having improved roads, and this information is given to other counties having similar problems. A study of the cost of effective maintenance over a long stretch of road has been undertaken in the maintenance of the Washington-Atlanta highway in cooperation with local road officials, and in this way maintenance methods are demonstrated to county officials..... 18,529.65

Improvement of post roads: The object of this project is to improve certain roads selected by the Postmaster General and the Secretary of Agriculture pursuant to act of Congress of Aug. 24, 1912, in order to ascertain the advantages accruing from the improvement of roads in connection with the delivery of mails upon rural routes..... 60,142.35

Total..... 157,101.96

Road-Material Investigations.

Total expenditures as above.....	$40,031.26
Outstanding liabilities, Aug. 31 (estimated)..	772.66
Unexpended balance (estimated).....	148.75
Total allotment.....	40,952.67

Distributed among the several subactivities as follows:

Routine chemical testing and inspecting of dust preventives and road binders: Determination of the relative efficiency of various dust preventives and road binders, including tar, oil, native asphalt preparations, and any other materials which might be used as a dust palliative or as a binding material for any of the various types of roads. The work is essential also for the purpose of drawing specifications for this class of materials..... $13,552.86

Microscopic examination and classification of road-building rocks: General study of rocks in relation to their adaptability for road construction and maintenance, the identification of road-building rocks, and a study of the relation of physical properties to mineral composition; also investigation of the value of blast-furnace and open-hearth slags as road-building material..... 2,455.15

Investigation of the properties of dust preventives and road binders: Laboratory studies of the essential characteristics of dust preventives and road binders and studies of the effect of methods of manufacture upon the product obtained and of the behavior of these materials under varying conditions..... 84.51

Standardization of methods of testing bituminous road materials: Investigation and development of methods of testing bituminous materials, including cooperation with technical societies..... 603.54

Experimental bituminous road construction and maintenance: To develop and study the application of bituminous materials in road construction and maintenance for the purpose of correlating laboratory experiments with field service tests..... 2,039.25

Instruction of students in highway engineering: Instruction of civil-engineer students, engineers, and representatives of States and universities in the laboratory testing of all road materials. The dissemination of knowledge accomplished by this means greatly assists in the accomplishment of the unification of methods of testing and the adoption of methods and interpretations recommended by this office..... $1,609.94

Physical testing of road-building materials: Covers the physical testing of all materials intended for use in road construction. It is important that road builders in general should obtain information as to the value of various available materials for this work, and this information can only be obtained through laboratory tests..... 4,933.26

Concrete investigations: Investigation of the properties of Portland cement concrete with special reference to its use in road construction. The extensive use within recent years of short-span reinforced concrete highway bridges has demonstrated the value of studying stresses produced by loads coming upon them, in order that they may more economically be designed with reference to span, thickness, and percentage of reinforcement. For this purpose a series of laboratory tests are being conducted on full-sized reinforced concrete slabs..... 8,783.07

Nonbituminous road-materials investigations: To develop from time to time by means of laboratory investigations new materials to be used in road construction. Investigations are made of the physical properties of nonbituminous road-building materials, and the results of physical tests are correlated with the behavior of these materials in field service tests..... 757.53

Standardization of tests on nonbituminous road materials: In order that comparable results may be obtained by the various laboratories testing nonbituminous road materials, it is essential that these tests be standardized. This work also covers the development of new tests for road materials with the view of making them standard. 1,274.60

OFFICE OF MARKETS AND RURAL ORGANIZATION.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Marketing and distributing farm products.	.....	$115,514.64	$10,336.83	$125,851.47	$34,130.87	$924.74	$7,794.54	$12,494.21
2	Investigations of rural cooperation.	.....	12,690.91	3,645.97	16,336.88	3,421.82	.....	661.65	1,826.30
3	Determining cotton standards and spot markets.	.....	20,213.77	358.33	20,572.10	6,323.25	.....	964.10	1,934.77
	Total	.....	148,419.32	14,341.13	162,760.45	43,875.94	924.74	9,420.29	16,255.28

Instrument making and repairing: Covers the repair of instruments and testing machines used in the road-material investigations; also the construction of additional apparatus necessary in the work	$4,710.21
Total	40,803.92

FIELD EXPERIMENTS.

Total expenditures as above	$23,132.89
Outstanding liabilities, Aug. 31 (estimated)	38,730.47
Unexpended balance (estimated)	136.64
Total allotment	62,000.00

Distributed among the several subactivities as follows:

Experimental construction of types of high-grade roads: The object of this project is to provide a means of studying the behavior of various types of road surfaces under known conditions of construction and traffic. This work is confined to high-class construction, usually in cooperation with some local administrative unit having funds available, for the purpose of demonstrating the best methods of constructing the more advanced types of roads and for studying the action of these roads under known conditions of traffic	49,175.54
Traction tests: These tests are conducted to determine the decrease in draft that may be secured by the improvement of road surfaces and the relative draft required on the various types of road. Investigations are made regarding the effect of draft, of width of tire, grade of road, diameter of wheel, size of skein, method of hitching, and, to a certain extent, the effect of rations on the pulling power of draft animals. Exhaustive tests have been conducted to determine the cumulative effect of width of tire. These tests have been made on various types of pavement	12,687.82
Total	61,863.36

IMPROVEMENT OF POST ROADS.

Total expenditure as above	$346,581.74
Expenditures prior to June 30, 1914	34.50
Unexpended balance carried over	153,383.76
Total allotment	500,000.00

The object of this work is to construct improved highways along postal routes for service tests, in cooperation with the Post Office Department, States, and counties, for which a special appropriation of $500,000 was provided under the act of Aug. 24, 1912. The cost of the work until the end of the fiscal year 1915 is distributed as follows:

Lauderdale County, Ala	9,612.35
Boone and Story Counties, Iowa	9,846.78
Dubuque County, Iowa	7,130.02
Bath and Montgomery Counties, Ky	13,100.00
Cumberland County, Me	48,757.65
Montgomery County, Md	14,700.00
Leflore County, Miss	39,130.85
Davie County, N. C	15,042.43
Iredell County, N. C	5,052.94
Forsyth County, N. C	3,374.09
McDowell County, N. C	8,726.87
Licking and Muskingum Counties, Ohio	65,666.85
Jackson County, Oreg	9,999.98
Aiken County, S. C	4,885.27
Dillon County, S. C	34.50
Loudon County, Tenn	8,797.07
Montgomery County, Tenn	9,709.83
Bexar County, Tex	14,013.42
Comal County, Tex	4,998.92
Hays County, Tex	15,477.12
Travis County, Tex	4,157.40
Caroline County, Va	1,906.07
Hanover County, Va	9,000.00
Spotsylvania County, Va	6,847.37
Fairfax County, Va	16,648.46
Total	346,616.24

OFFICE OF MARKETS AND RURAL ORGANIZATION.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$3,397.67	$276.50	$858.09	$333.53	.....	.....	.....	.....	$8,208.70	$194,270.32	1
1,510.93	.....	50.00	5.30	.....	.....	.....	.....	972.20	24,785.08	2
359.56	5,519.44	202.76	1,196.67	.....	.....	.....	.....	5,919.63	42,992.28	3
5,268.16	5,795.94	1,110.85	1,535.50	.....	.....	.....	.....	15,100.53	262,047.68	

PROJECT STATEMENTS.

Marketing and Distributing Farm Products.

Total expenditures as above	$194,270.32
Outstanding liabilities, Aug. 31 (estimated)	1,805.61
Unexpended balance (estimated)	3,924.07
Total allotment	200,000.00

Distributed among the several subactivities as follows:

Administration: Supervision of the investigational, experimental, and demonstrational activities of the office and execution of necessary administrative work connected therewith	49,002.52
Cotton handling and marketing: Investigation of methods and systems of ginning, handling, grading, and marketing, as well as the warehousing and utilization of cotton, cotton seed, and products thereof	42,333.08
Cooperative purchasing and marketing: Investigation of existing cooperative marketing, distributing, and purchasing organizations, as well as assisting in the organization of such associations and devising and inaugurating systems of accounting and auditing for cooperative organizations	$21,607.88
Market surveys, methods, and costs: Ascertaining market surplus, rate of movement, outlets, and prices of products by definite areas, and compiling data on the supply and the consumption capacity of defined localities	24,055.51
Market grades and standards: Investigation of methods of grading and packing, as well as kinds of weights, measures, packages, and containers, with a view to standardization and uniformity	5,965.56
City marketing and distribution: Investigation of farmers', municipal, wholesale, and retail market houses, as well as curb markets and other methods of distribution in cities; also studies of refrigeration processes for preserving perishable products	6,096.72
Transportation and storage: Investigation of problems affecting the transportation and storage of farm products, with special reference to cooling processes, minimum car lots, and adequate service; and to promote cooperation between carriers and producers of perishable products	6,759.15

INSECTICIDE AND FUNGICIDE BOARD.

Classification of expenditures for the fiscal year ended June 30, 1915.

Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
	Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
		In Washington.	Out of Washington.					
Enforcement of the insecticide act	.....	$51,820.00	$12,386.54	$64,206.54	$7,871.71	$733.69	$264.43	$471.23

PROJECT STATEMENT.

Enforcement of the Insecticide Act.

Total expenditures as above	$80,554.59
Outstanding liabilities, Aug. 31, (estimated)	4,350.00
Unexpended balance (estimated)	10,095.41
Total allotment	95,000.00

FEDERAL HORTICULTURAL BOARD.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	Enforcement of the plant-quarantine act.	.....	$20,797.05	$7,654.22	$28,451.27	$7,274.23	$388.31	$2,468.88	$58.40
2	Domestic potato inspection	.....	372.00	45,543.42	45,915.42	8,159.66	13.60	565.51	103.31
	Total	.....	21,169.05	53,197.64	74,366.69	15,433.89	401.91	3,034.39	161.71

Marketing by parcel post and express: Investigation and demonstration of the possibilities of parcel post and express in marketing farm products direct from producer to consumer, and to what extent this may be carried on advantageously	$10,160.99
Miscellaneous problems in marketing and cooperation: Investigation of the marketing and distribution of live stock, meats, and animal by-products, including poultry, eggs, wool, and dairy products, and compilation of miscellaneous data on trade movements and developments in foreign markets	30,094.52
Total	196,075.93

INVESTIGATIONS OF RURAL COOPERATION.

Total expenditures as above	$24,785.08
Outstanding liabilities, Aug. 31 (estimated)	219.58
Unexpended balance (estimated)	14,995.34
Total allotment	40,000.00

Distributed among the several subactivities as follows:

Rural credit, insurance, and communication: Investigation of conditions and agencies for rural credit, and studies of rates and conditions of insurance and of farmers' telephone lines or other forms of rural communication	$13,181.60
Rural social and educational activities: Investigations into the migration from farms and reasons therefor, as well as studies of existing forms of educational, recreational, and social cooperative effort in rural communities; also promoting facilities that may exist in communities for such effort	11,823.06
Total	25,004.66

DETERMINING COTTON STANDARDS AND SPOT MARKETS.

Total expenditures as above	[1] $42,992.28

Administration of the United States cotton futures act, together with the investigation of future and spot markets for cotton, the preparation and distribution of the official cotton standards, and the determination of disputes growing out of future contracts.

[1] Amount expended to June 30, 1915, out of continuing appropriation of $150,000 made available by a special act dated Aug. 18, 1914.

INSECTICIDE AND FUNGICIDE BOARD.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies services, etc.	Total.
$915.69	$147.00	$123.75	$642.65	.....	.....	$49.70	$177.50	[1] $4,950.70	$80,554.59

[1] Insecticide and fungicide samples.

Distributed among the several subactivities as follows:

Administration: Supervisory work in connection with the enforcement of the insecticide act, including maintenance of necessary records, fiscal operations, correspondence, inspection work, etc	$28,570.40
Chemical, microscopic, and bacteriological examination of insecticides and fungicides other than those used on horses, cattle, sheep, swine, or goats	31,826.68
Testing the efficacy of fungicides and the action on vegetation of insecticides and fungicides	7,549.62
Testing the efficacy of insecticides and the action on vegetation of insecticides	9,199.64
Chemical and bacteriological examination of insecticides and fungicides used on horses, cattle, sheep, swine, or goats, and efficacy tests of same	7,758.25
Total	84,904.59

FEDERAL HORTICULTURAL BOARD.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
$1,261.38	.....	$140.93	$390.23	.....	.....	.....	$495.47	$363.04	$41,292.14	1
594.82	$421.03	785.44	456.59	$45.85	.....	$88.50	4,469.56	171.18	61,790.47	2
1,856.20	421.03	926.37	846.82	45.85	.....	88.50	[1] 4,965.03	534.22	103,082.61	

[1] Printing, $4,269.20; publication of quarantine notices, $695.83.

PROJECT STATEMENTS.

Enforcement of the Plant-Quarantine Act.

Total expenditures as above	$41,292.14
Outstanding liabilities, Aug. 31 (estimated)	442.44
Unexpended balance (estimated)	29,035.40
Total allotment	70,769.98

Distributed among the several subactivities as follows:

Administration: To carry on supervisory and clerical work necessary for the proper enforcement of the plant-quarantine act	17,429.31
Control of importations: To provide for foreign inspection and certification of nursery stock, potatoes, and other plant products; to secure prompt notification of arrival, and to provide for the proper inspection, either at port of entry or at place of destination, of such imports	4,415.34
Foreign plant quarantines: To prevent the entry of plant material affected with white-pine blister rust, potato wart, powdery scab of potato, Mexican fruit fly, avocado weevil, the pink bollworm of cotton, and insect enemies and plant diseases of sugar cane	8,670.62

APPROPRIATIONS UNDER THE WEEKS FORESTRY LAW.

Classification of expenditures for the fiscal year ended June 30, 1915.

	Project.	Salaries.				Travel, station, and field expenses.	Equipment.		
		Statutory.	Lump fund.		Total.		Apparatus, instruments, laboratory.	Furniture.	Miscellaneous.
			In Washington.	Out of Washington.					
1	National Forest Reservation Commission.	.....	$150.00	.....	$150.00	$54.23	.....	$118.80	.....
	Acquisition of lands:								
2	Forest Service	.....	.....	$108,871.61	108,871.61	32,432.52	.....	.....	$1,864.46
3	Solicitor's office	.....	.....	51,158.77	51,158.77	10,419.04	.....	.....	10.00
4	Purchase of lands	.....	.....	.....	.....	.....	.....	.....	.....
5	Cooperative fire protection	.....	.....	68,739.54	68,739.54	799.25	.....	.....	.....
	Total	.....	150.00	228,769.92	228,919.92	43,705.04	.....	118.80	1,874.46

Domestic plant quarantines: To prevent further distribution within the United States of the Mediterranean fruit fly, gipsy moth, brown-tail moth, date-palm scale insects, and insect enemies and plant diseases of sugar cane	$11,219.31
Foreign investigations: Investigation of insect or plant-disease conditions in foreign countries as a basis for needed quarantine action	
Total	41,734.58

DOMESTIC POTATO INSPECTION.

Total expenditures as above	[1] $61,790.47
Outstanding liabilities, Aug. 31 (estimated)	219.96
Unexpended balance (estimated)	811.99
Total allotment	62,822.42
This project covers the inspection of potatoes for interstate shipment from areas quarantined for powdery scab	62,010.43

[1] Includes $12,822.42 expended to June 30, 1915, from the immediately available item of $25,000 carried in the agricultural appropriation act approved Mar. 4, 1915.

APPROPRIATIONS UNDER THE WEEKS FORESTRY LAW.

Classification of expenditures for the fiscal year ended June 30, 1915.

Stationery.	Rent.	Telegraph, telephone, and postage.	Freight, express, and drayage.	Furnishing of heat, light, power, electricity.	Forage purchased in bulk.	Fuel.	Specified items not otherwise classified.	Miscellaneous supplies, services, etc.	Total.	
									$323.03	1
$40.50	$262.00	$178.73	$1,259.59			$20.08	[1] $117.00	$15,222.15	160,268.64	2
215.60	431.75	22.22	1.83			24.65		432.92	62,716.78	3
							[2] 916,154.84		916,154.84	4
									69,538.79	5
256.10	693.75	200.95	1,261.42			44.73	916,271.84	15,655.07	1,209,002.08	

[1] Options for purchase of lands. [2] Lands purchased.

PROJECT STATEMENTS.

National Forest Reservation Commission.

Total expenditures as above	$323.03
Unexpended balance	24,676.97
Total appropriation	25,000.00
This commission, consisting of the Secretary of War, the Secretary of the Interior, the Secretary of Agriculture, two members of the Senate, and two members of the House of Representatives, considers and passes upon lands recommended for purchase under the provisions of sec. 6 of the Weeks forestry law (act approved Mar. 1, 1911), and fixes the price or prices at which such lands may be purchased	323.03

Acquisition of Lands.

Total expenditures as above	$1,139,140.26
Unexpended balance, June 30, 1915 (available for further disbursement)	[1] 5,023,888.04
Total available, July 1, 1914	6,163,028.30

The cost of the work, including administrative expenses and purchase of lands, is distributed as follows:

Forest Service: As provided in sec. 6 of the Weeks forestry law, the Forest Service, by direction of the Secretary of Agriculture, examines, locates, and recommends for purchase such lands as in the judgment of the Secretary may be necessary to the regulation of the flow of navigable streams, reporting to the Naitonal Forest Reservation Commission the results of such examinations	160,268.64
Solicitor's office: As provided in sec. 8 of the Weeks forestry law, the Solicitor's office of the Department of Agriculture, by direction of the Secretary of Agriculture, makes all the necessary examinations of title records to secure the safe title in the United States to the lands to be acquired under this law, no payment being made, however, until the title is satisfactory to and approved by the Attorney General and vested in the United States	$62,716.78
Purchase of lands: During the fiscal year ended June 30, 1915, the payments for the actual purchase of lands acquired under the Weeks forestry law amounted to	916,154.84
Total	1,139,140.26

Cooperative Fire Protection.

Total expenditure as above	$69,538.79
Unexpended balance	81,566.12
Total available July 1, 1914	151,104.91
As provided in sec. 2 of the Weeks forestry law, the Secretary of Agriculture cooperates with any State or group of States desiring such cooperation in the protection from fire of the forested watersheds of navigable streams by entering into a contract with the cooperating State for the organization and maintenance of a system of fire protection on any private or State forest lands within such State and situated upon the watershed of a navigable river. During the fiscal year ended June 30, 1915, such cooperative agreements were in force with the States of Maine, New Hampshire, Vermont, Massachusetts, Connecticut, New York, New Jersey, Maryland, West Virginia, Kentucky, Michigan, Wisconsin, Minnesota, South Dakota, Montana, Idaho, Oregon, and Washington	69,538.79

[1] Includes $4,101,693.30, covered by executed contracts on which no actual payment had been made up to June 30, 1915; $400,195.04, covered by options on lands which have been approved by the National Forest Reservation Commission for purchase, but for which contracts have not been actually executed; and $521,999.70, balance available for encumbrances during the fiscal year 1916.

SUMMARY OF EXPENDITURES OF THE DEPARTMENT OF AGRICULTURE.

The total expenses of the Department of Agriculture for the fiscal year ended June 30, 1915, were $27,065,285.81, of which amount $26,698,294.91 was paid and $366,990.90 outstanding Aug. 31, 1915. The payments were classified as follows:

Statutory salaries	$4,631,103.62
Lump-fund salaries:	
In Washington	2,205,857.63
Out of Washington	9,971,508.66
Travel, station, and field expenses	2,579,730.68
Equipment:	
Apparatus, instruments, and laboratory	148,125.52
Furniture	115,142.52
Miscellaneous	726,777.02
Stationery	189,708.43
Rent	368,097.25
Telegraph, telephone, and postage	317,891.93
Freight, express, and drayage	273,231.32
Furnishing of heat, light, power, and electricity	25,090.73
Forage purchased in bulk	$151,696.65
Fuel	49,228.08
Land, including acquisitions under the Weeks law	947,771.84
Purchase of animals for experimental and control purposes	2,678,387.14
Unclassified items, including mechanics', engineers', and electricians' supplies; printing, engraving, lithographing, and binding; structures and parts and nonstructural improvements to lands; subsistence and care of animals and storage and care of vehicles; cleaning and toilet supplies; and advertising and publication of notices	161,897.24
Miscellaneous supplies and services	1,157,048.65
Total	26,698,294.91